

Fig. 1

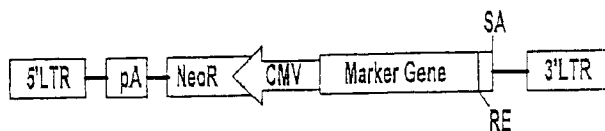


Fig. 2A

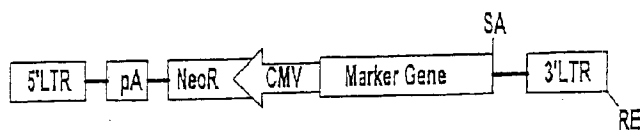


Fig. 2B

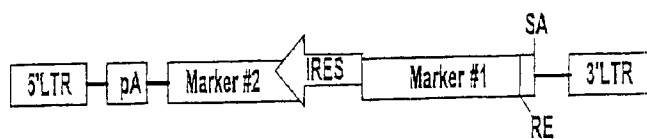


Fig. 2C

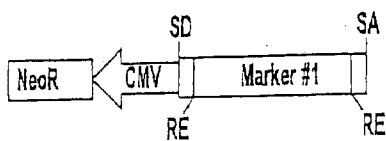


Fig. 2D

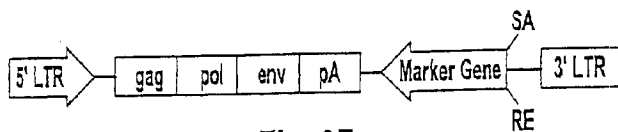


Fig. 2E

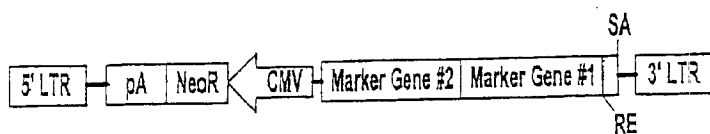


Fig. 2F

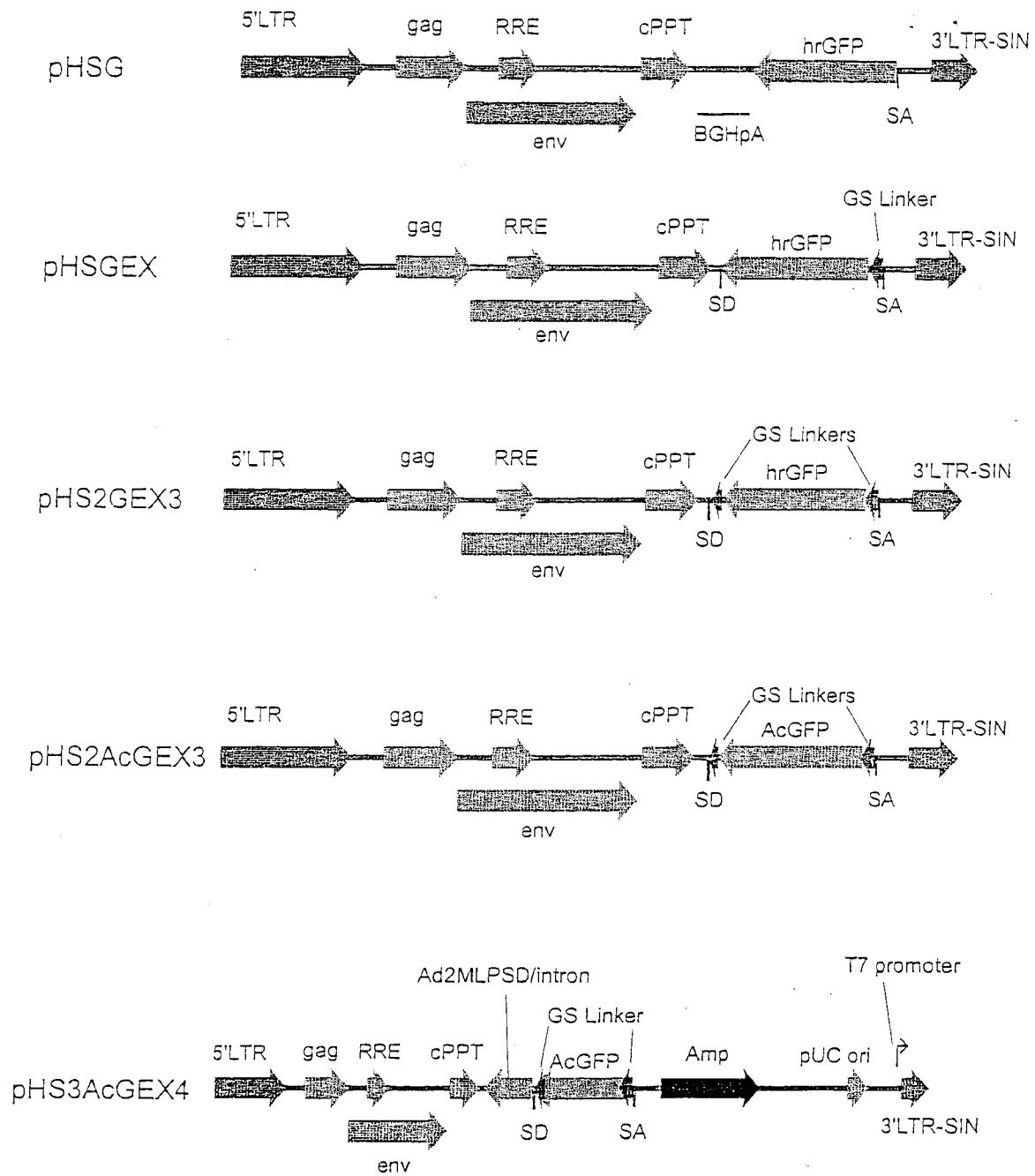
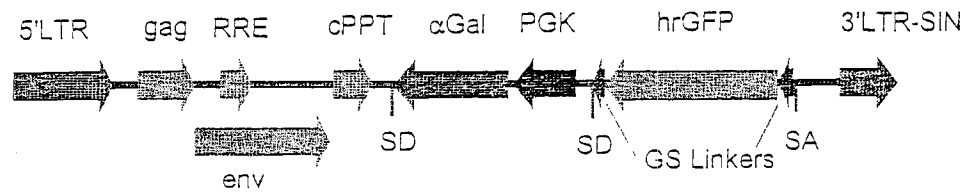
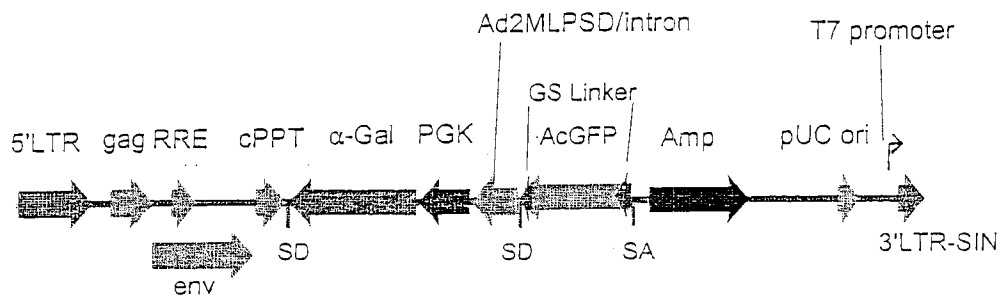


Fig 2g

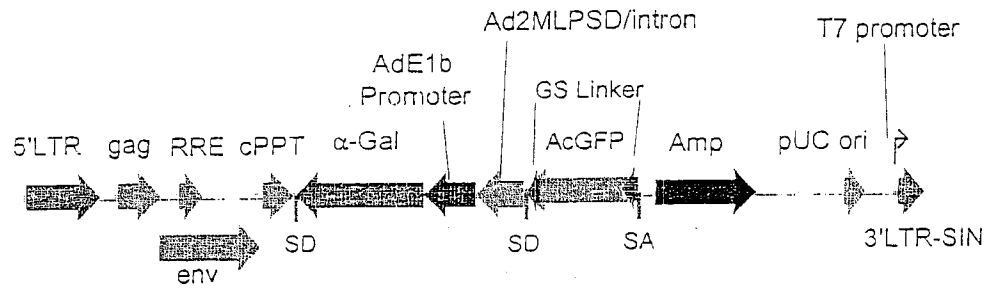
pHS2GEX3PA



pHS3AcGEX4PA



pHS3AcGEX4E1bA



pHS3AcGEX4E1bNeo

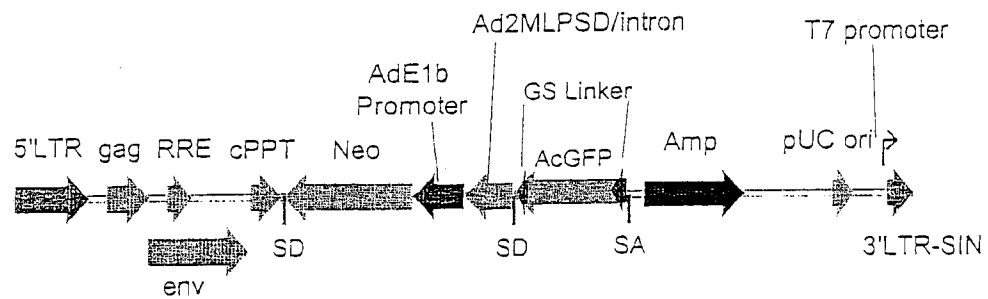


Fig 2h

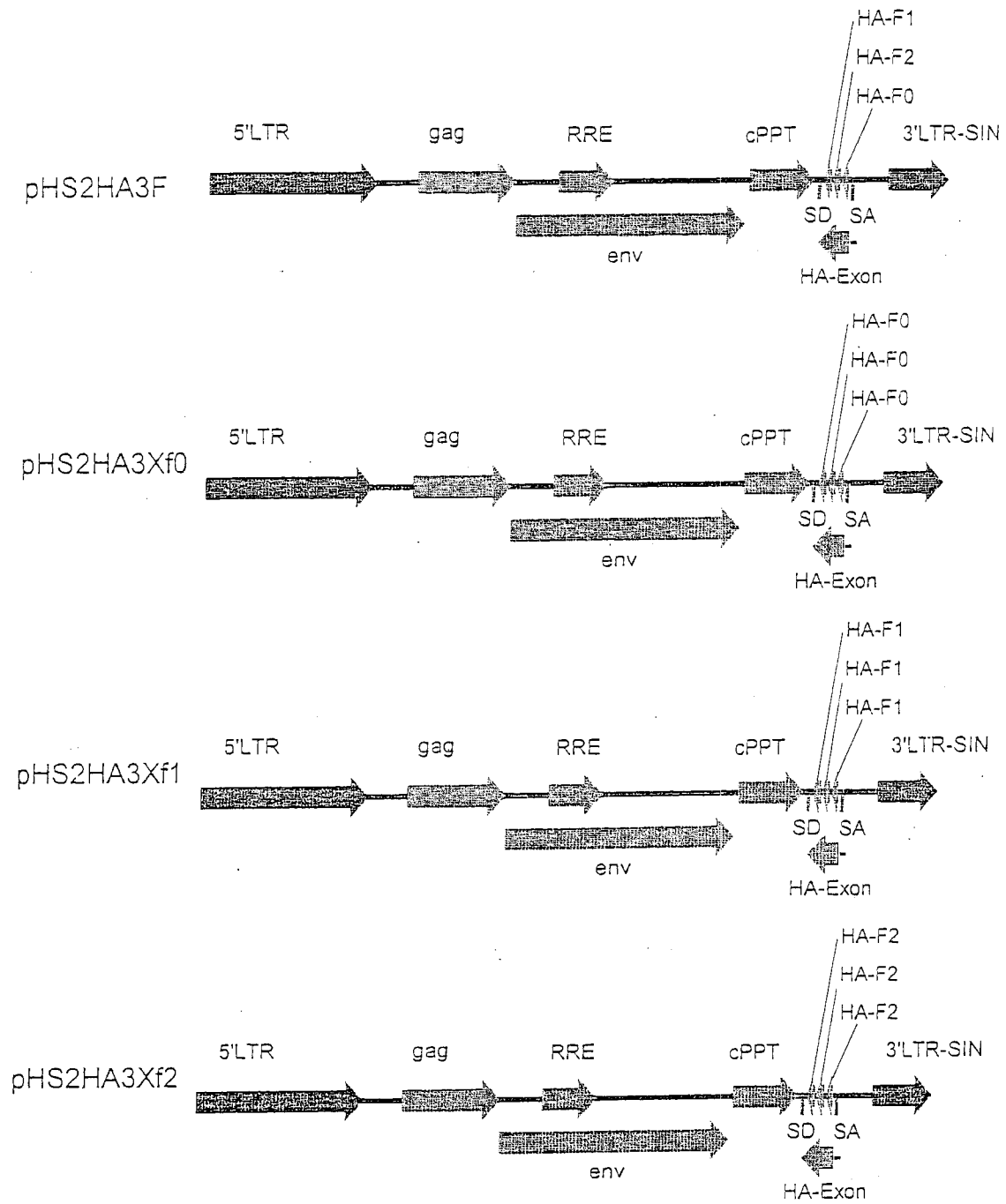


Fig 2i

Replacement Sheet

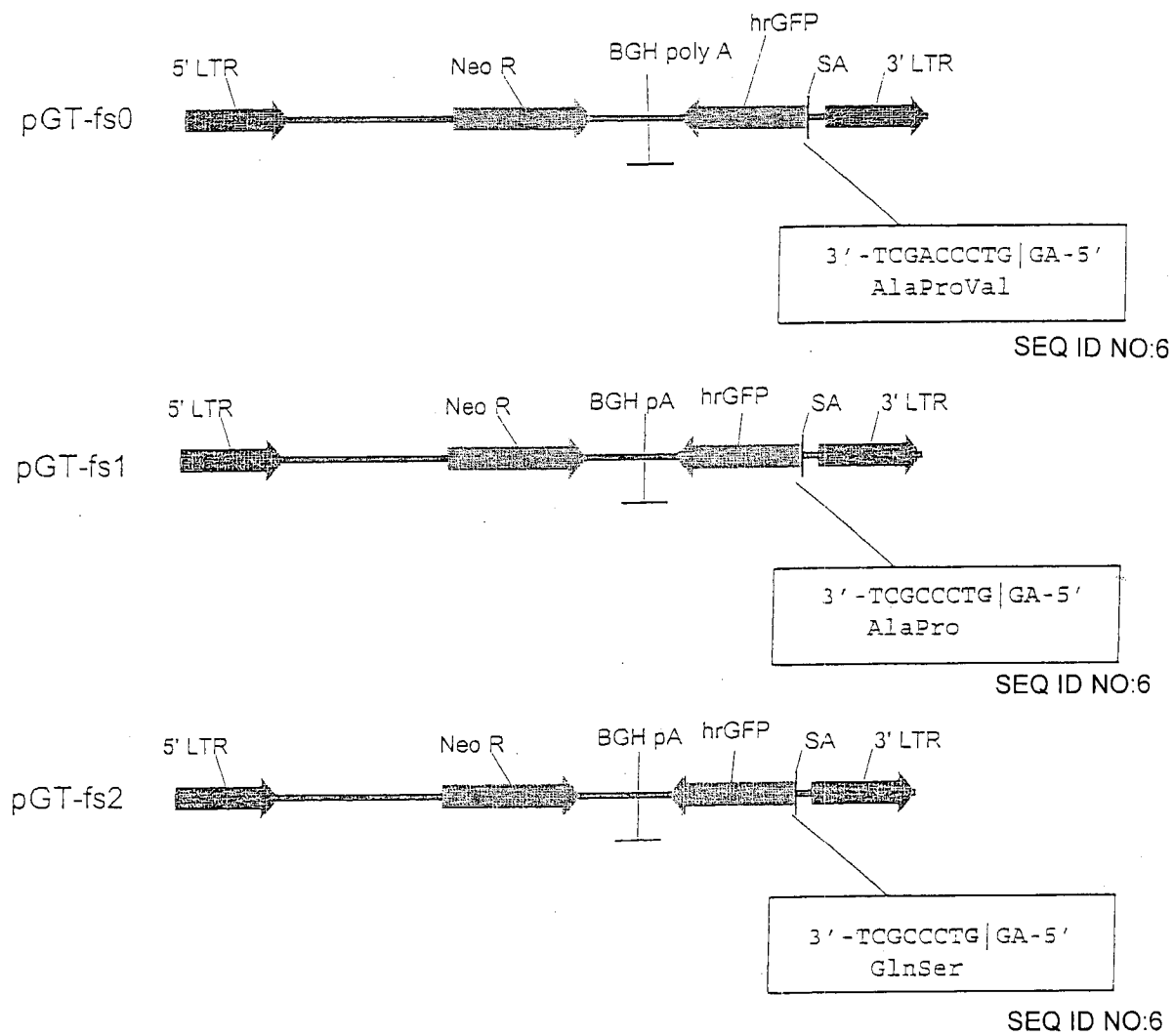


Fig 2j

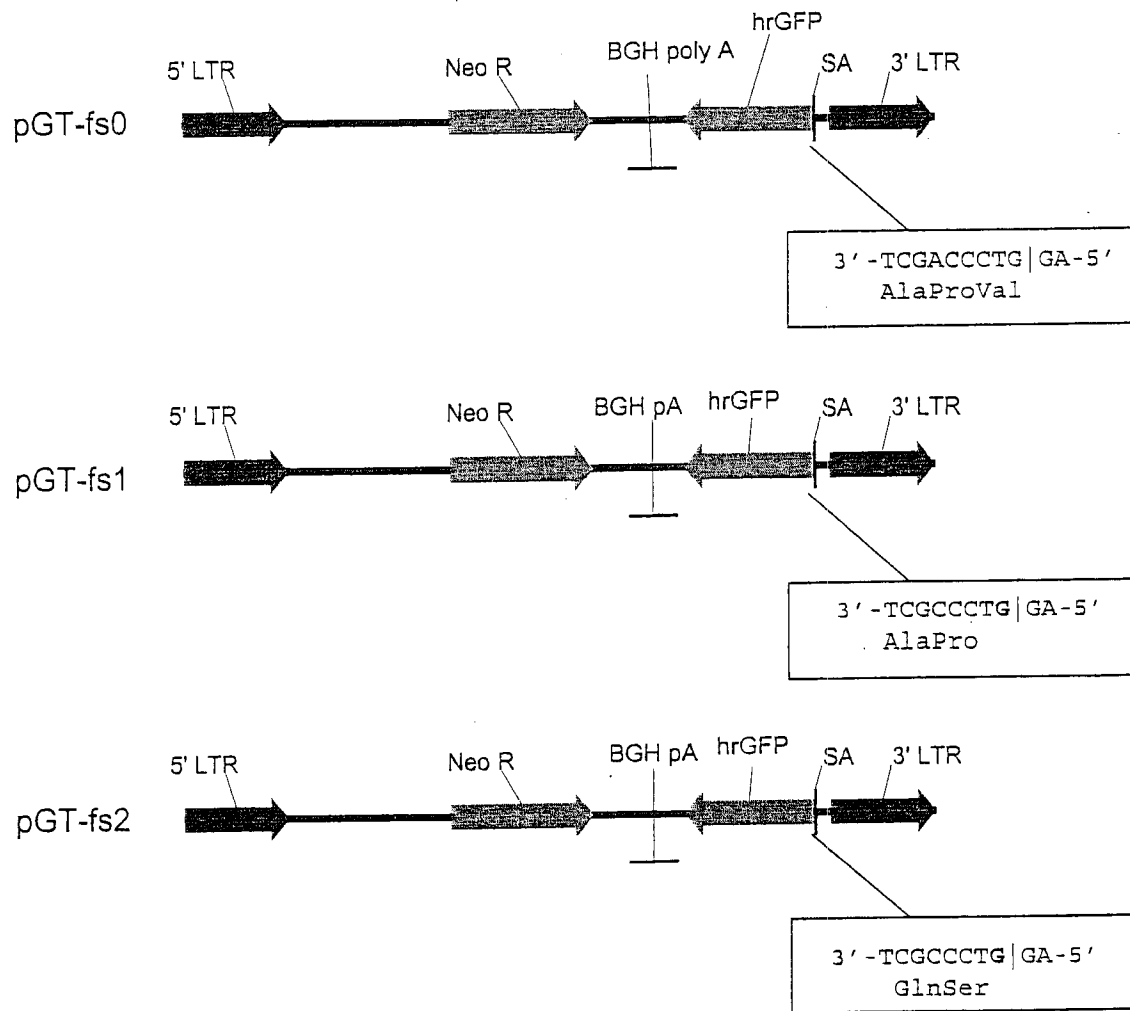


Fig 2k

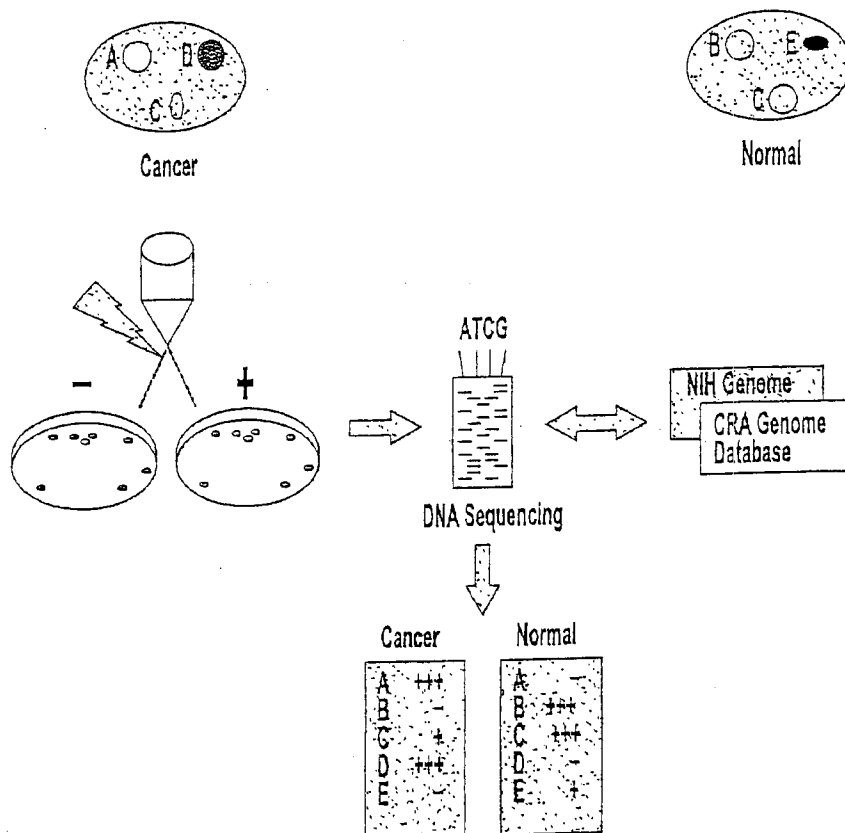


Fig.3

9/41

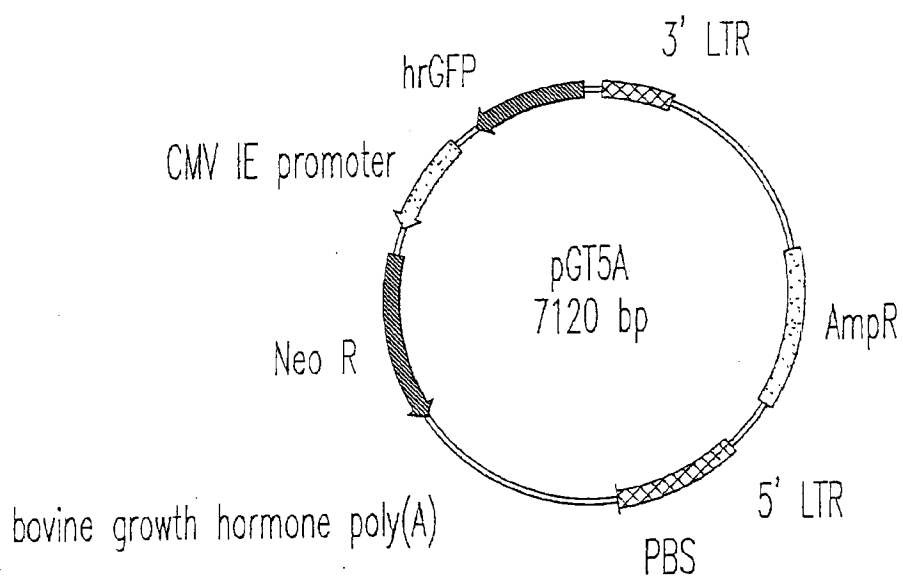


Fig. 4A

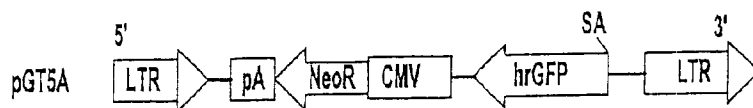


Fig. 4B

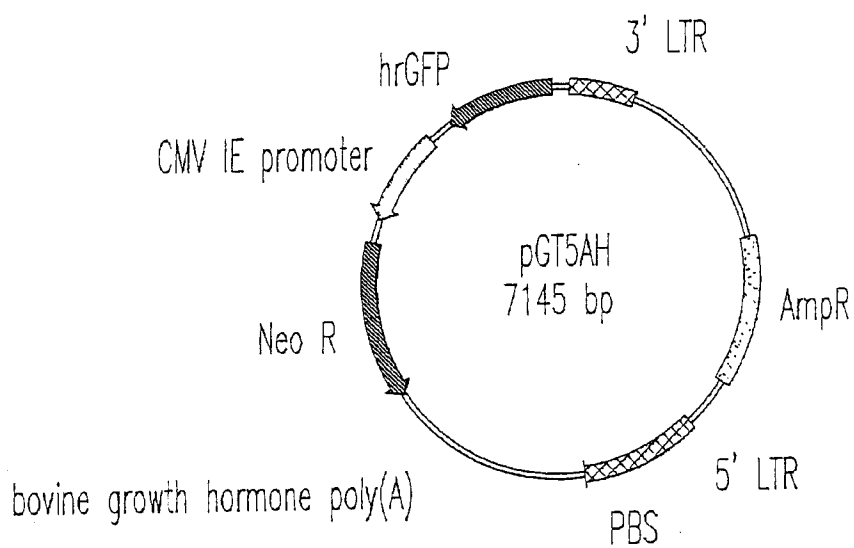


Fig. 5A

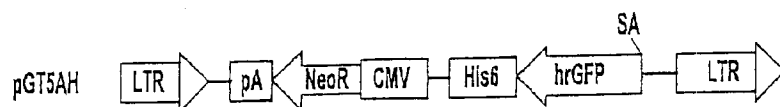


Fig. 5B

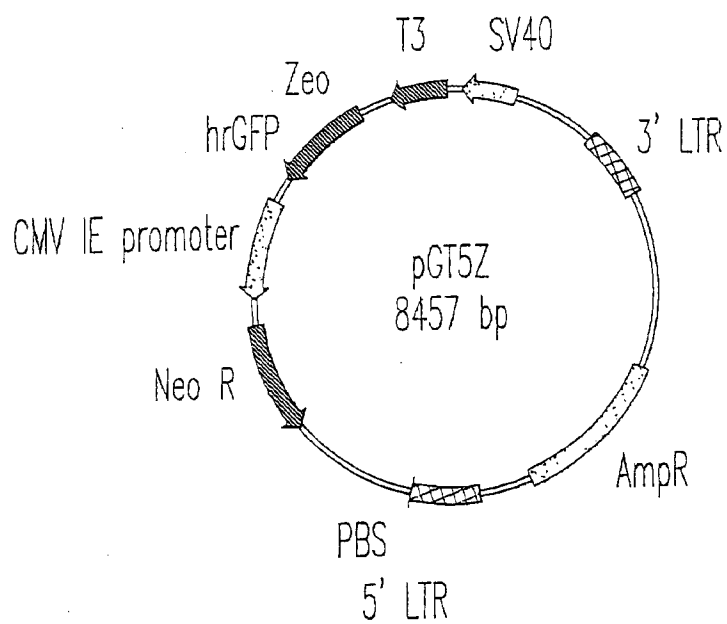


Fig. 6A

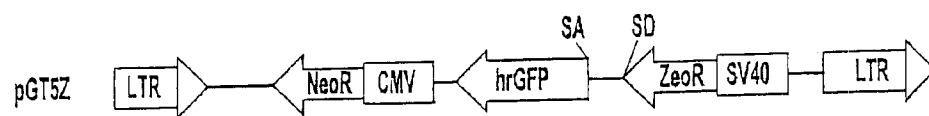


Fig. 6B

12/41

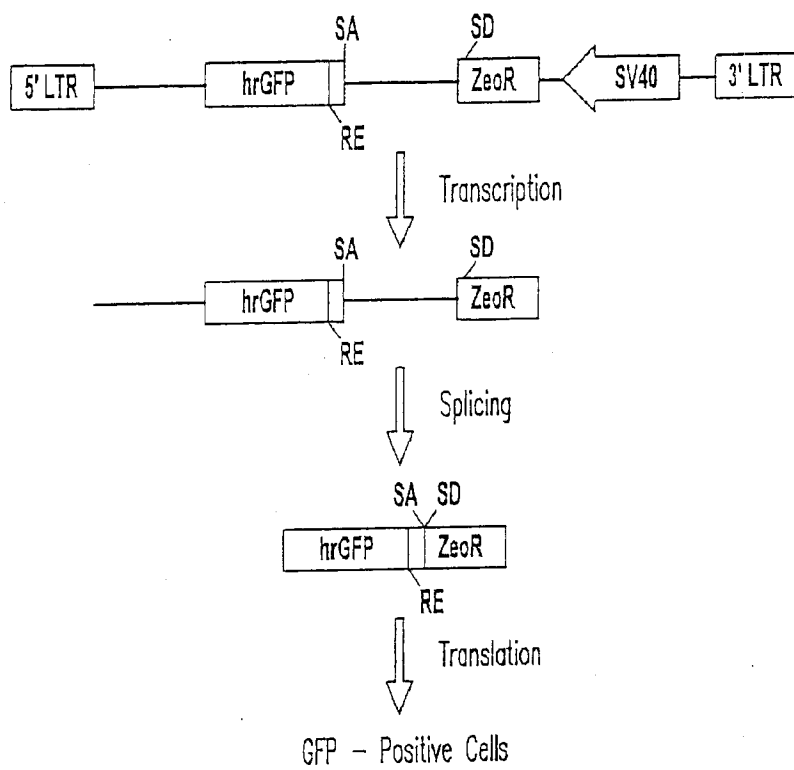


Fig. 7A

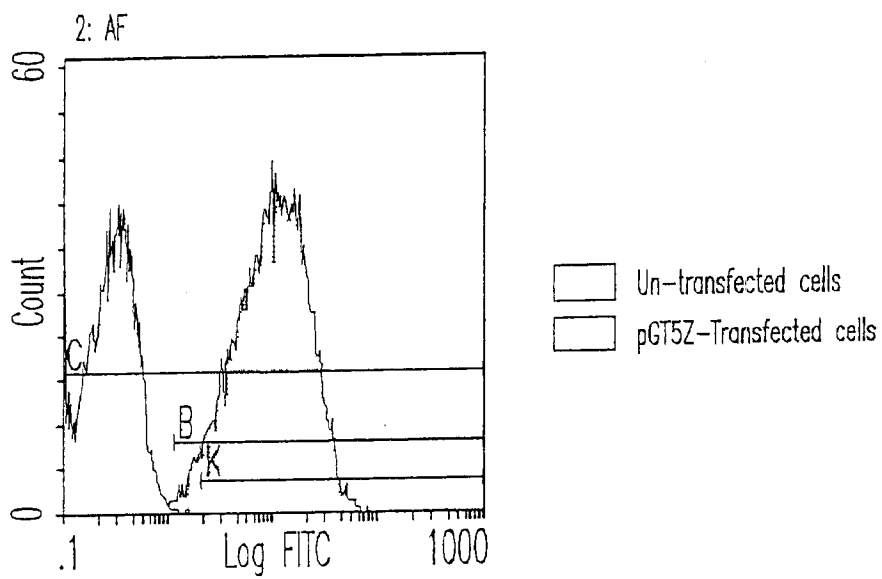


Fig. 7B

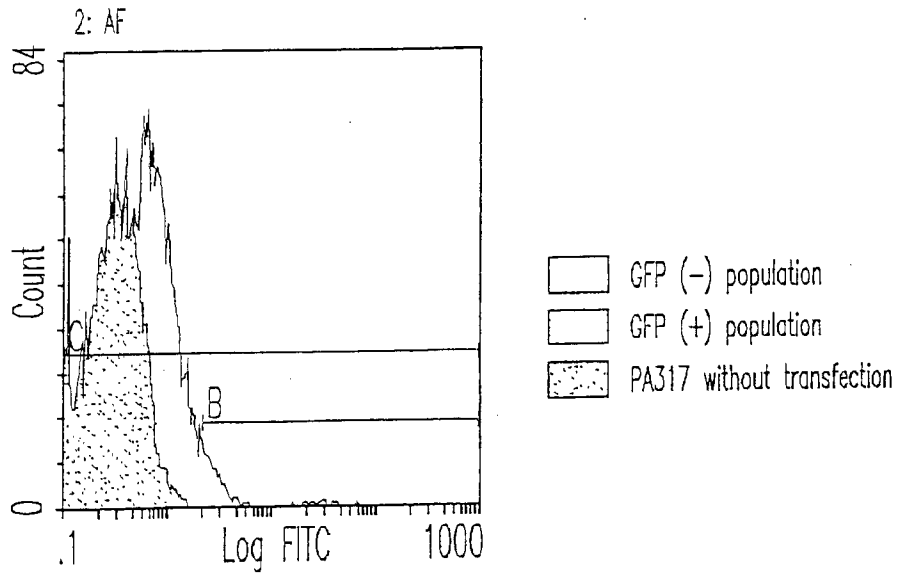


Fig. 8A

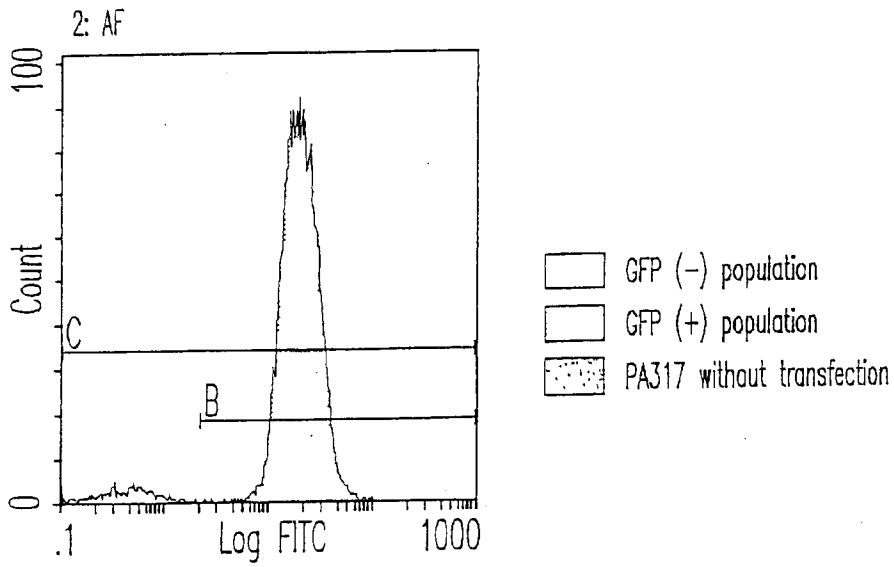


Fig. 8B

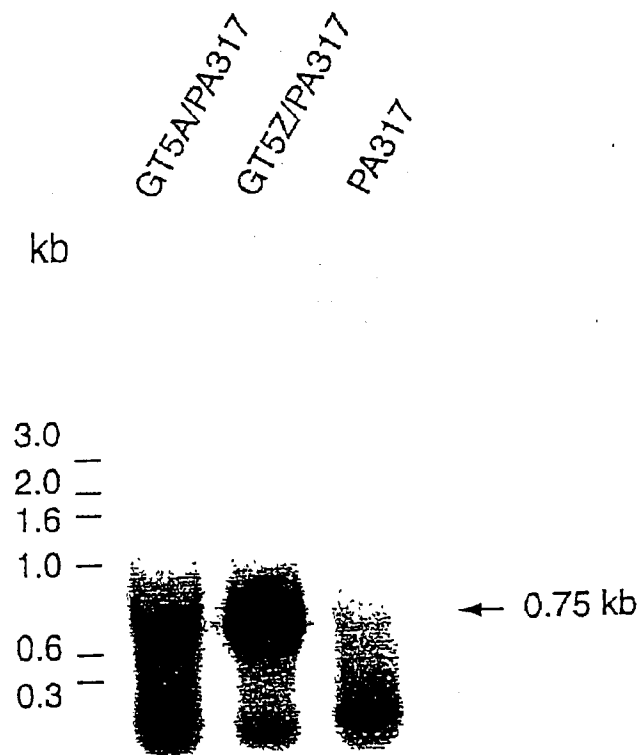


Fig. 9

15/41

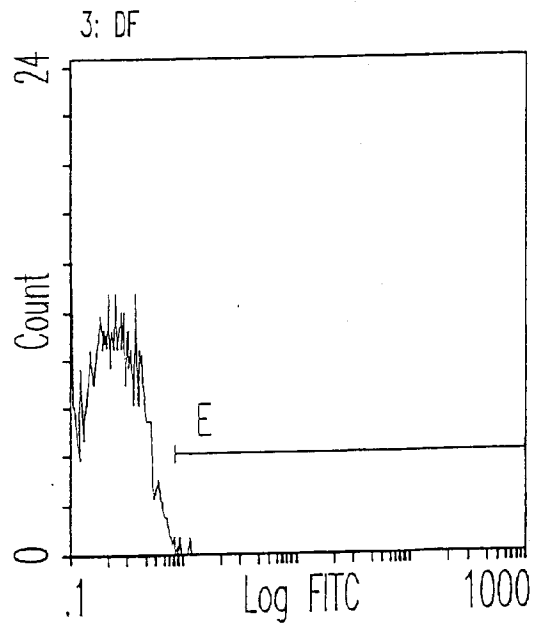


Fig. 10A

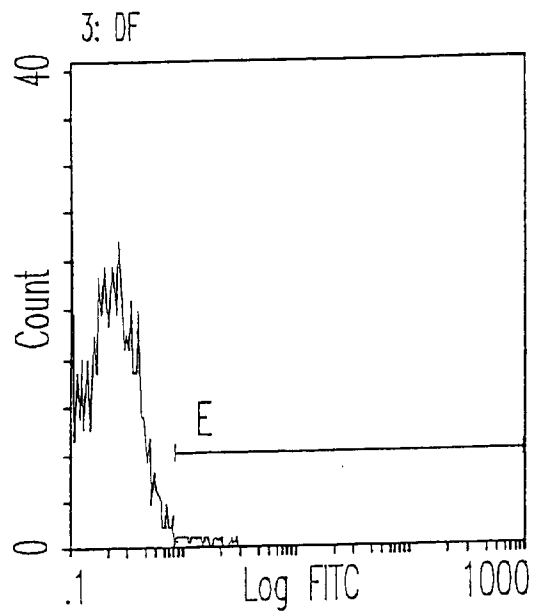


Fig. 10B

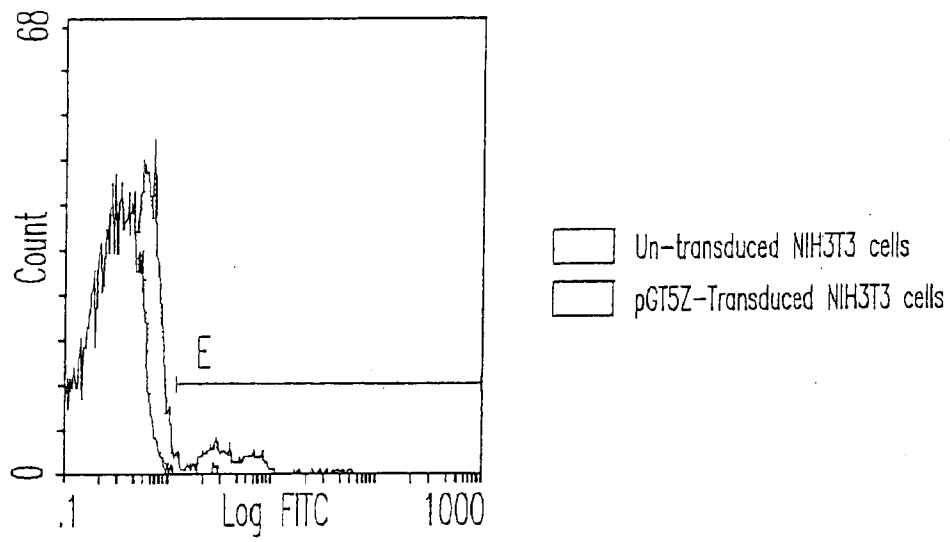


Fig. 11

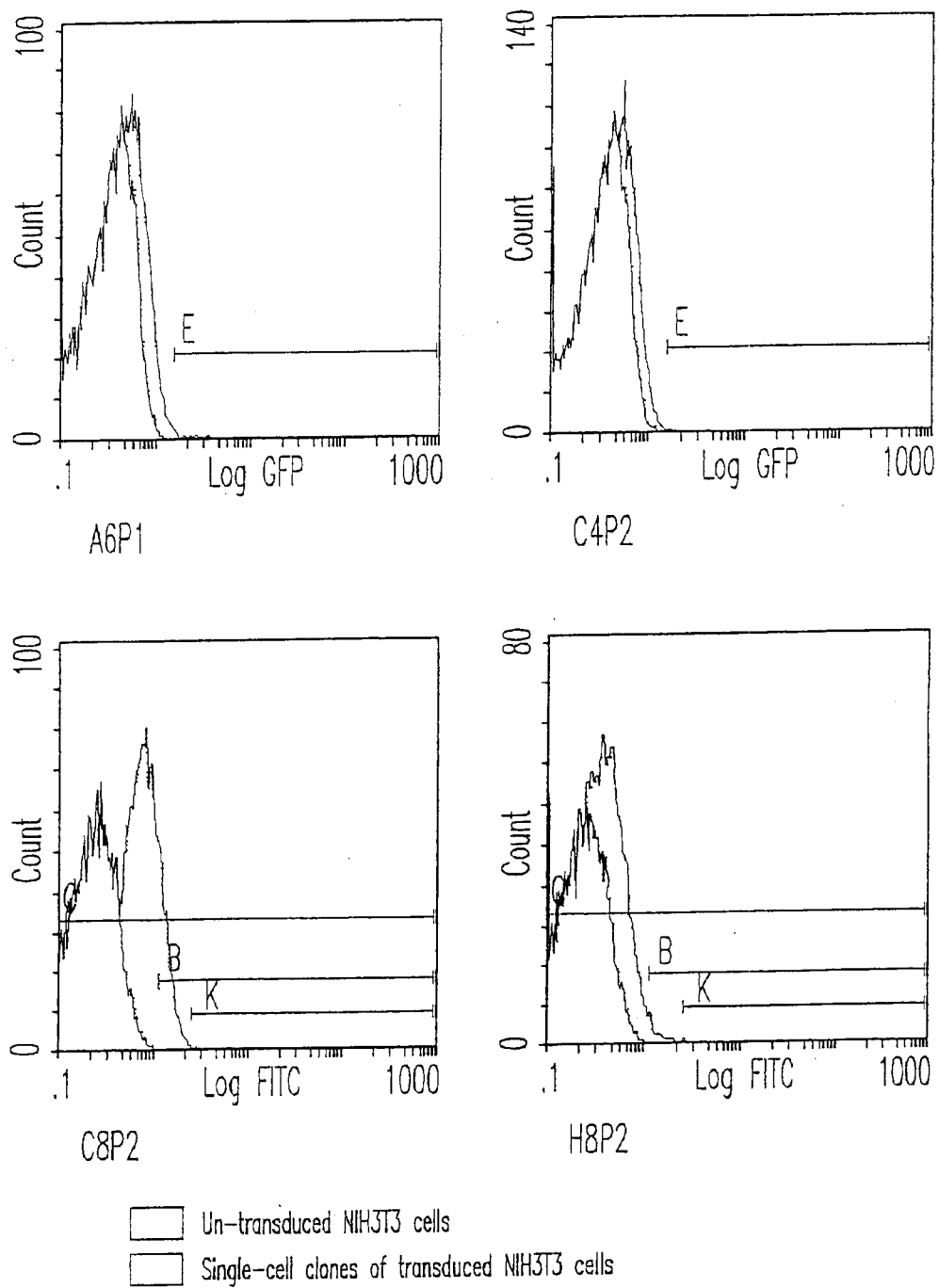


Fig. 12

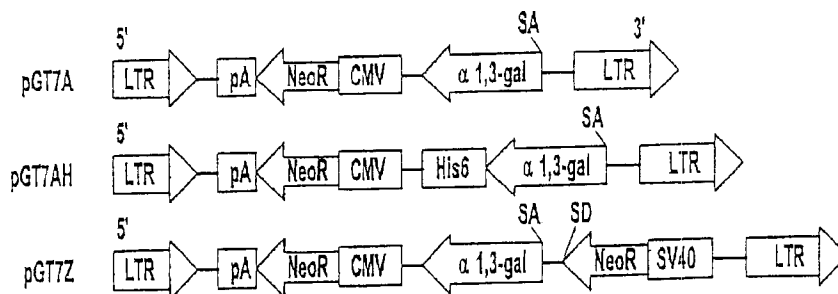


Fig. 13A

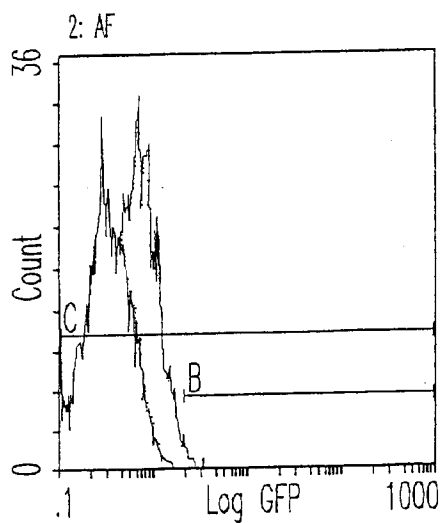


Fig. 13B

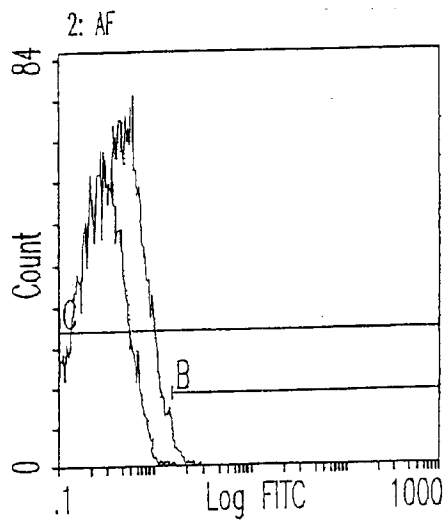


Fig. 13C

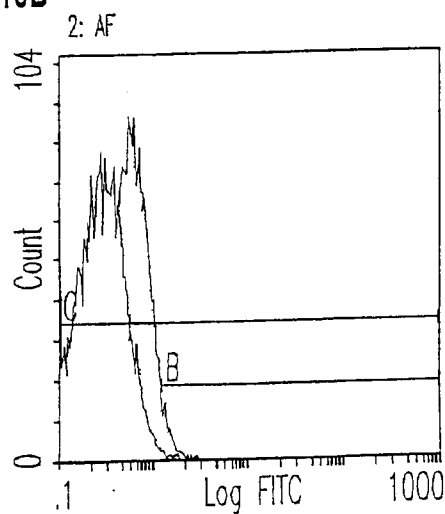
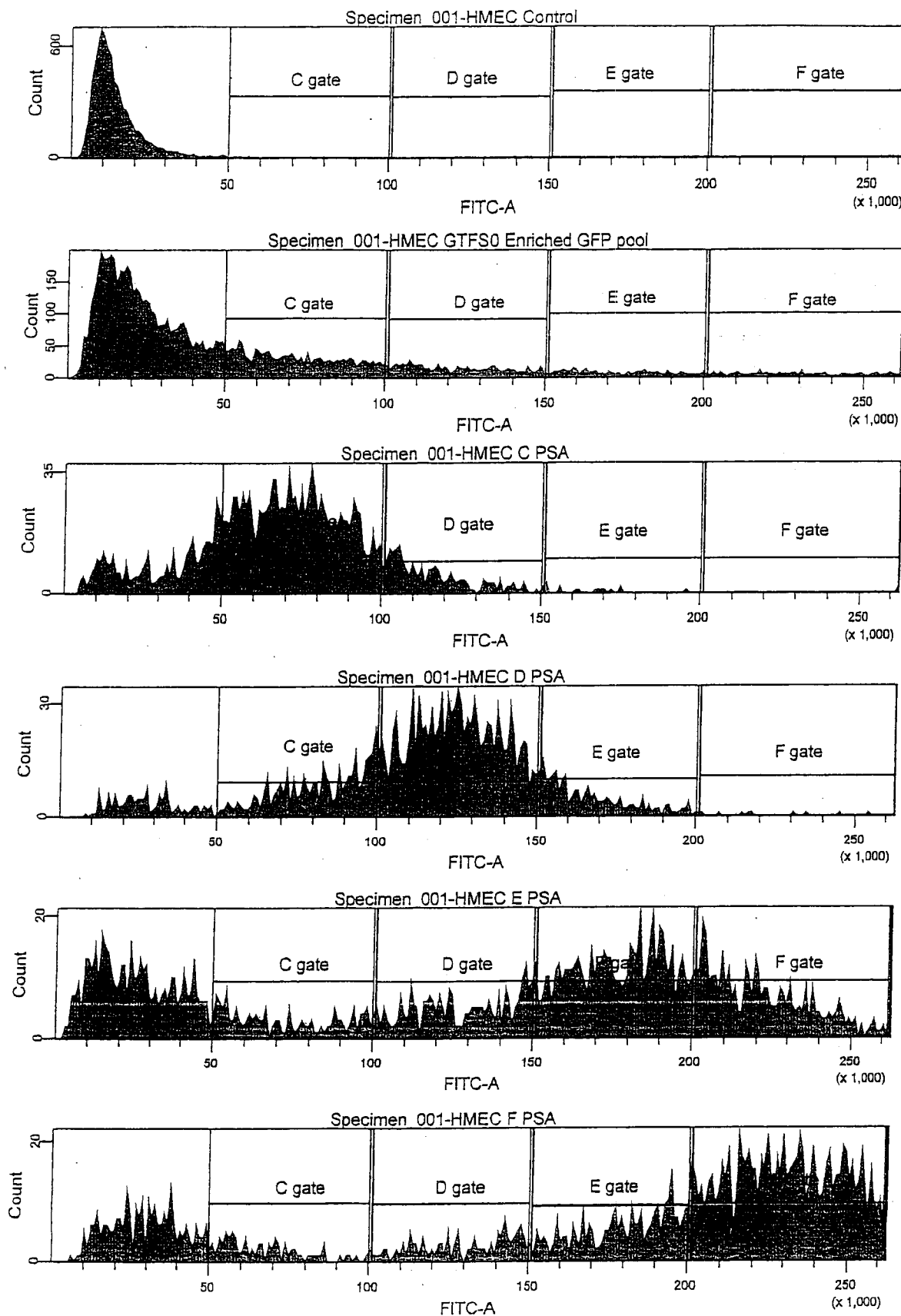
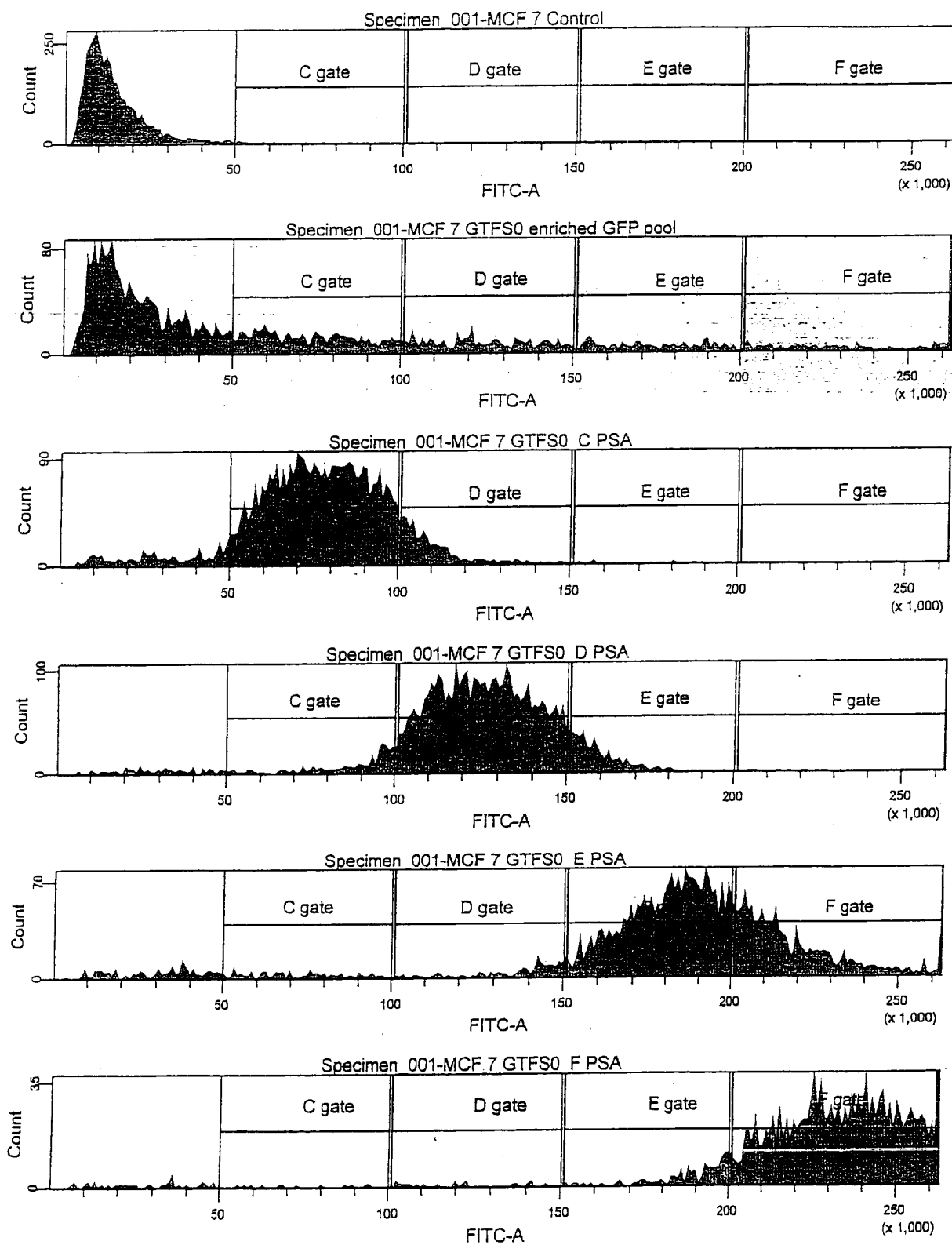


Fig. 13D

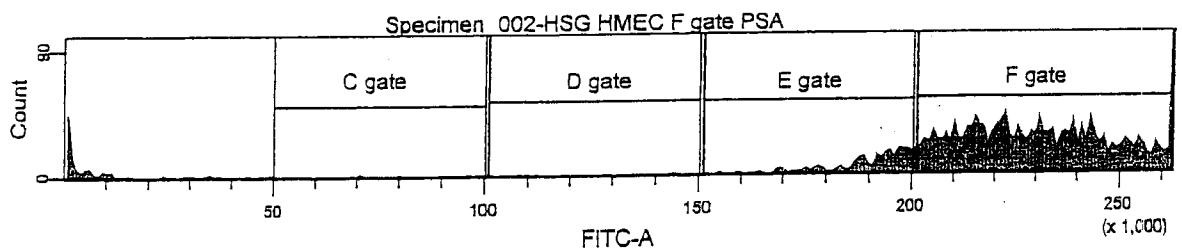
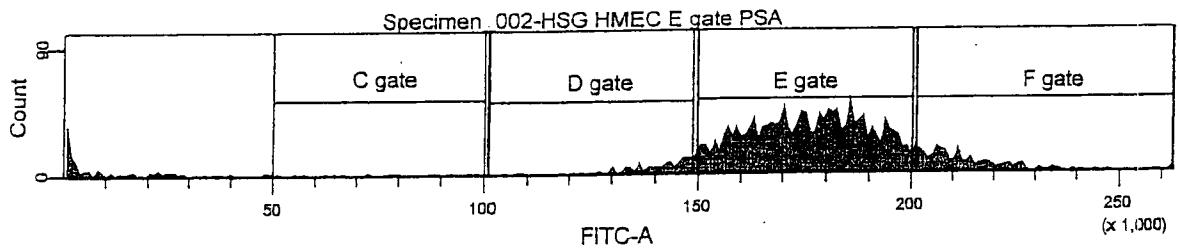
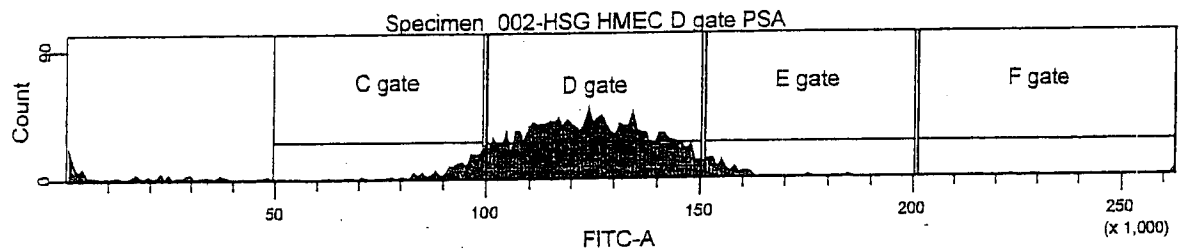
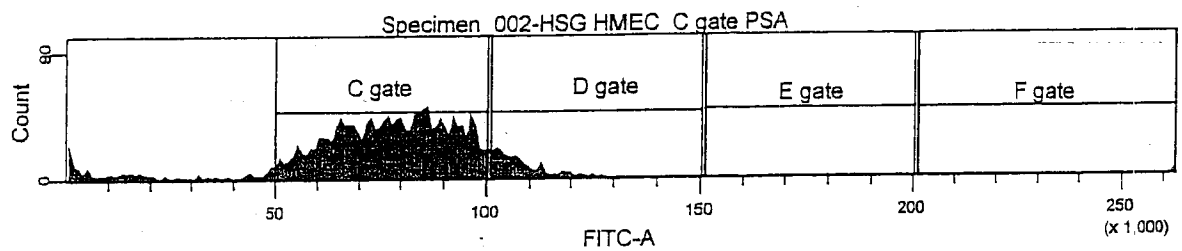
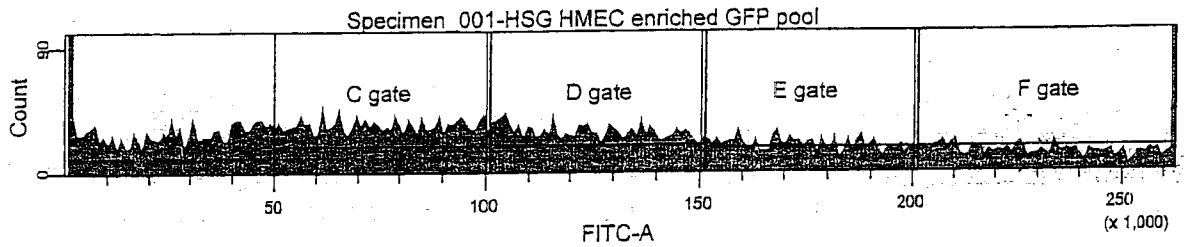
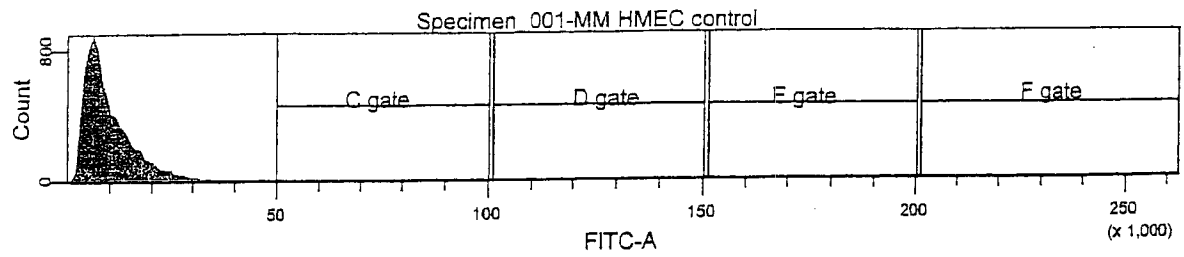
14A



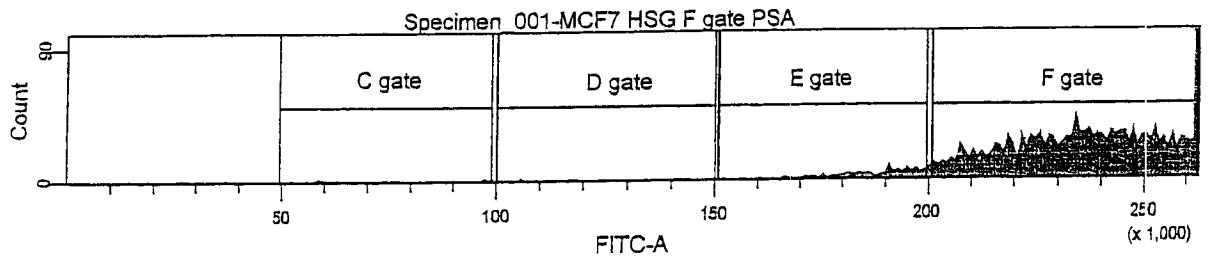
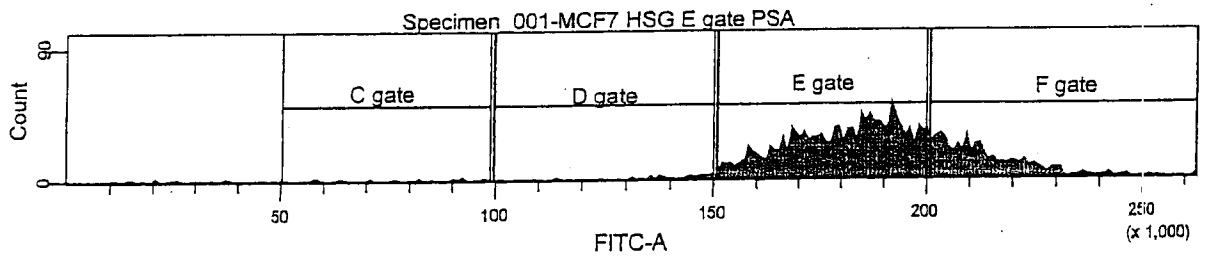
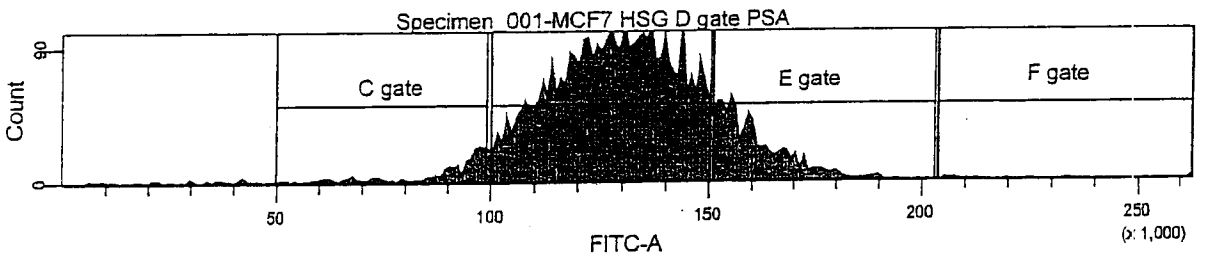
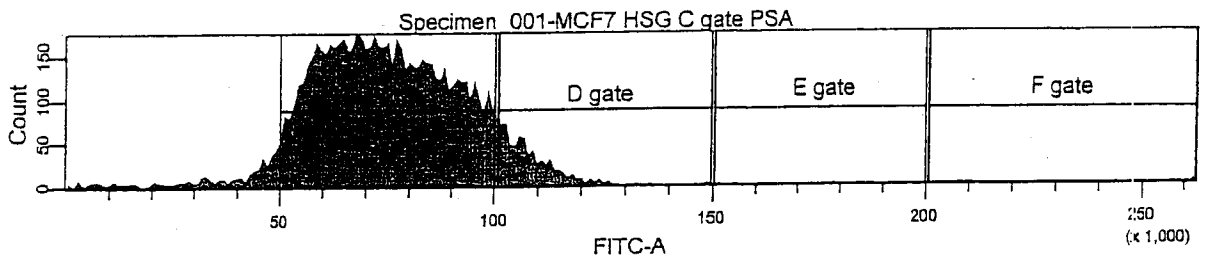
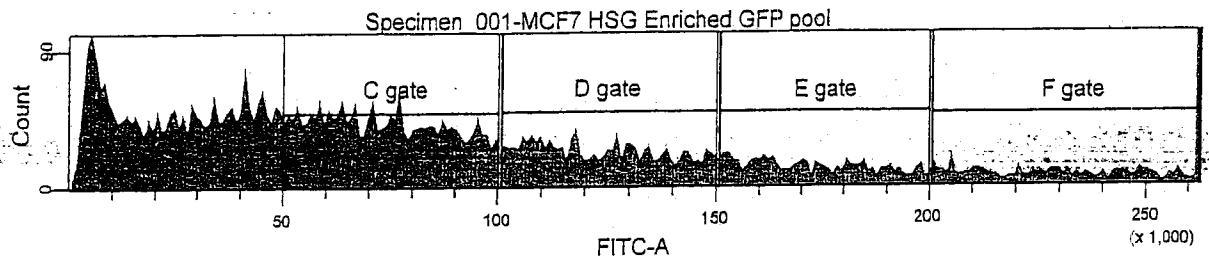
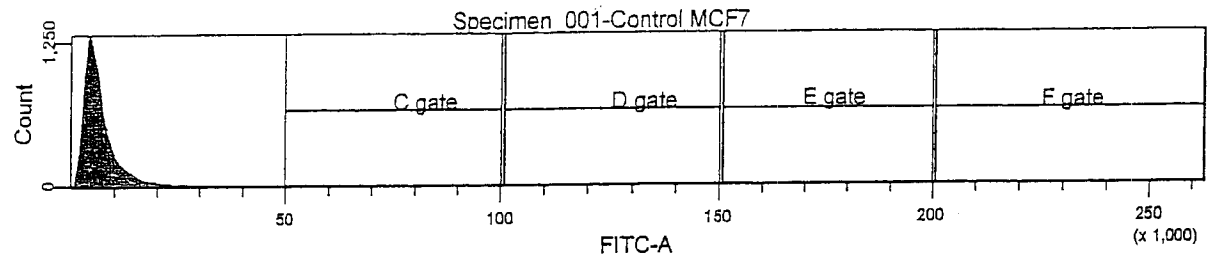
14B



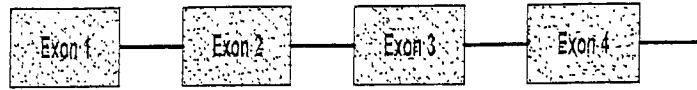
14C



14D



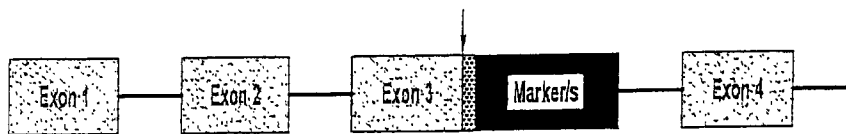
Natural genomic structure



Transfection and integration of vector/s by illegitimate recombination



1bp added to change
reading frame



2bp added to change
reading frame

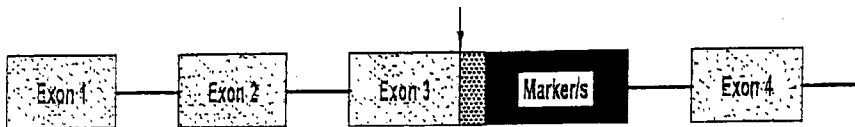
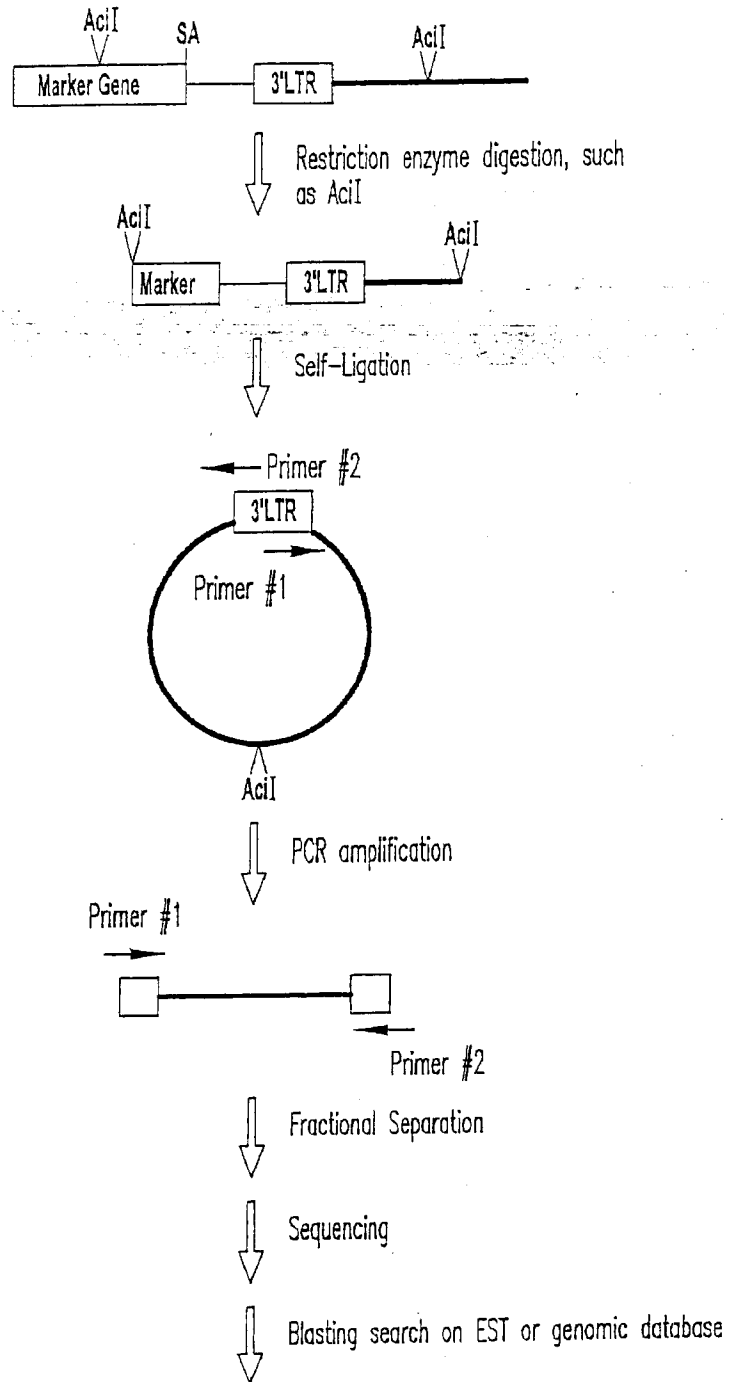


Fig. 15

24/41



Gene Expression Profiling Databases on target cells vs. counterpart

Fig. 16

25/41

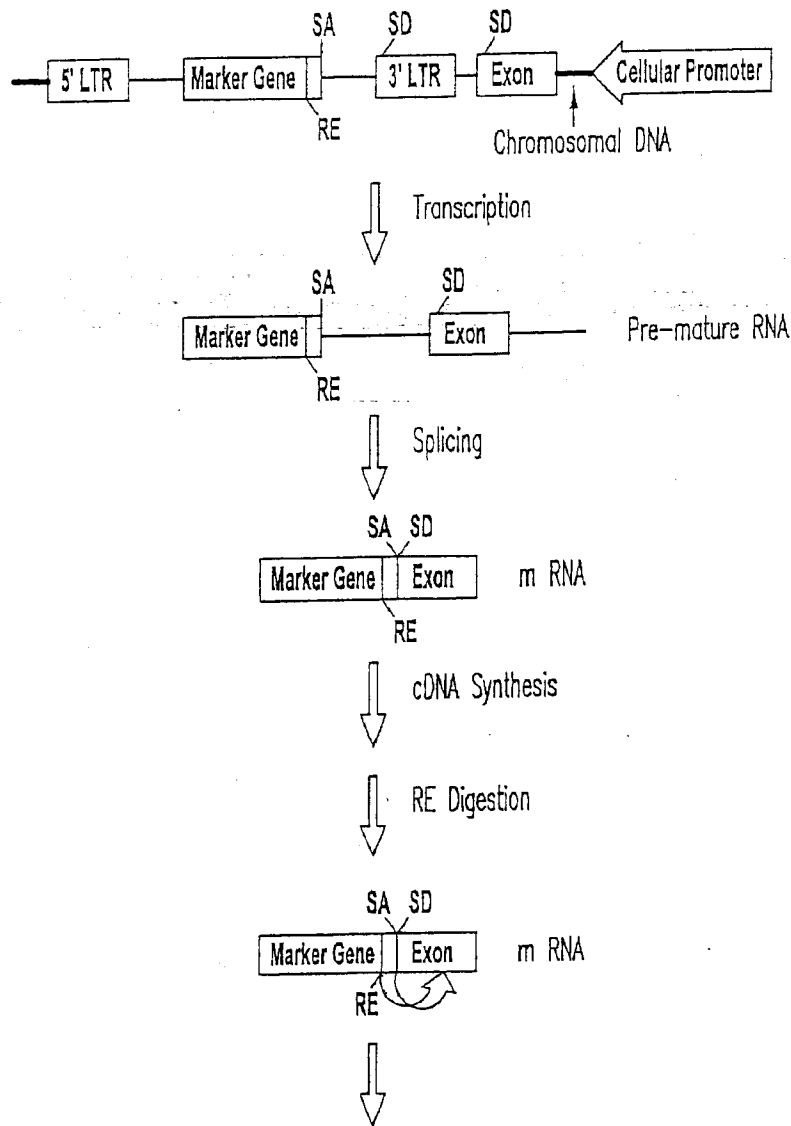
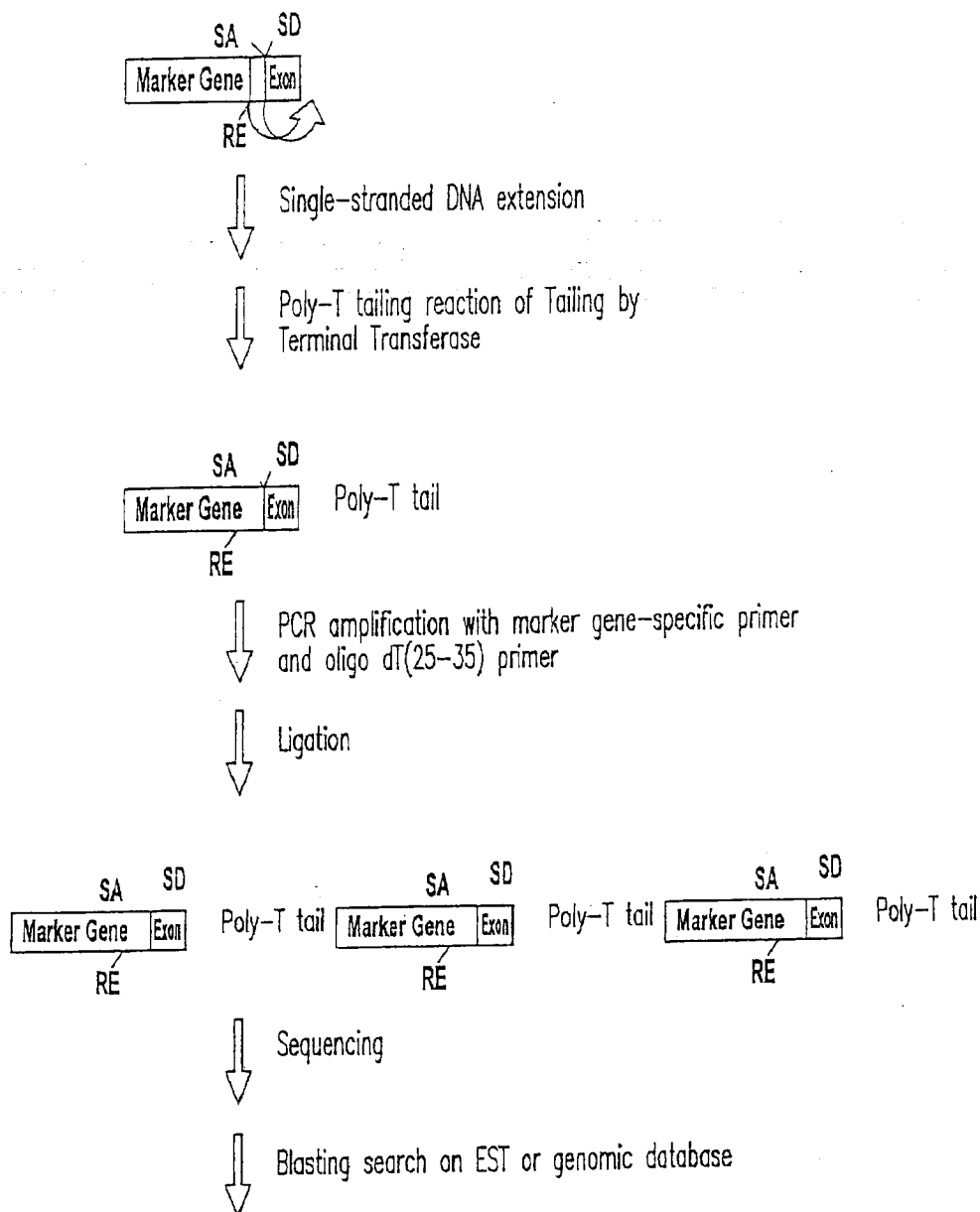


Fig. 17A



Gene Expression Profiling Database on target cells vs. counterpart

Fig. 17B

27/41

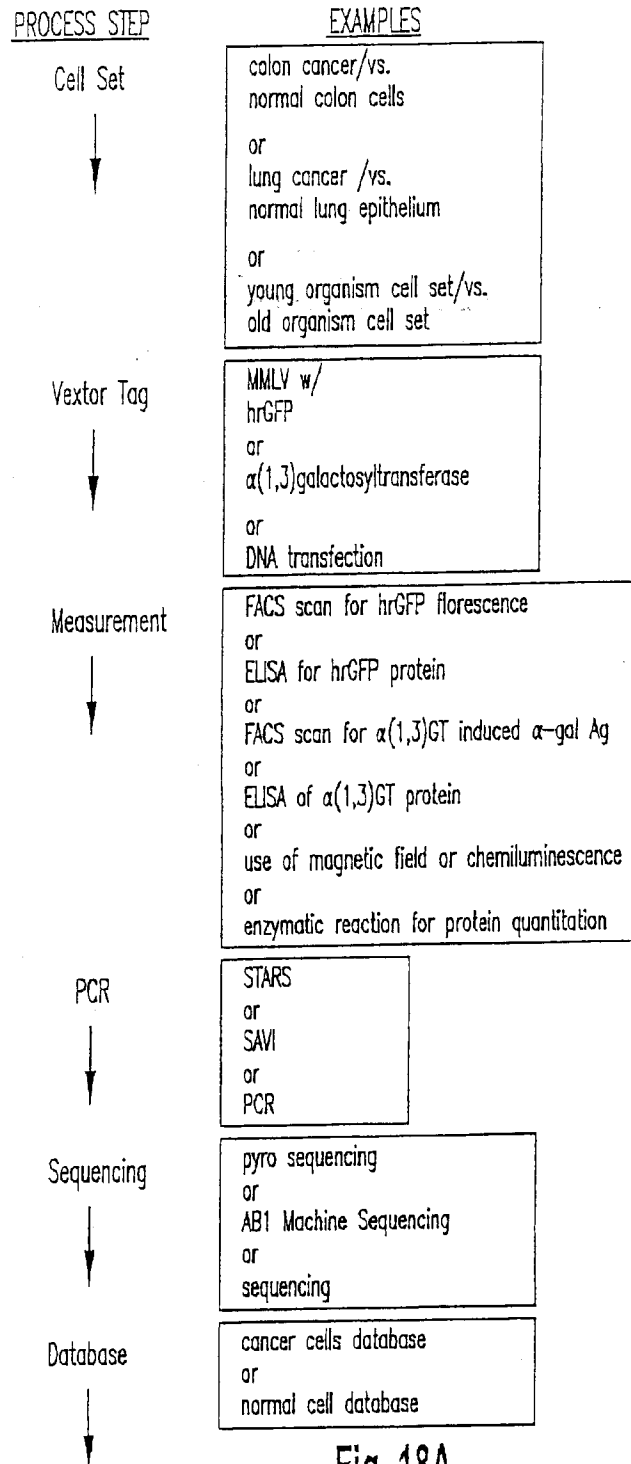


Fig. 18A

28/41

PROCESS STEP

Search Process



Comparative
Proteonomics



Pathway
Analysis



Target
Validation/
Diagnostics



Drug
Development

EXAMPLES

Parallel BLAST search EST
or
Search Genome database full sequence to define intron/exon
or
Alternative splicing database

Compare colon cancer cell to normal colon epithelium
or
Compare lung cancer cell to normal lung cell

multigene co-variant
or
Specific cell circuit analysis e.g. cell cycle

Monoclonal kb diagnostics Northern analysis, Western analysis
or
DNA assay/gene chip comparison
or
SNP Associations
or
Yeast 2-hybrid fishing for protein partner

monoclonal Antibody treatment
or
small molecule library search and/or
treatment
or
gene therapy
or
anti-sense
or
Ribozyme
or
any other conventional
pharmaceutical drug development

Fig. 18B

5'SAVI

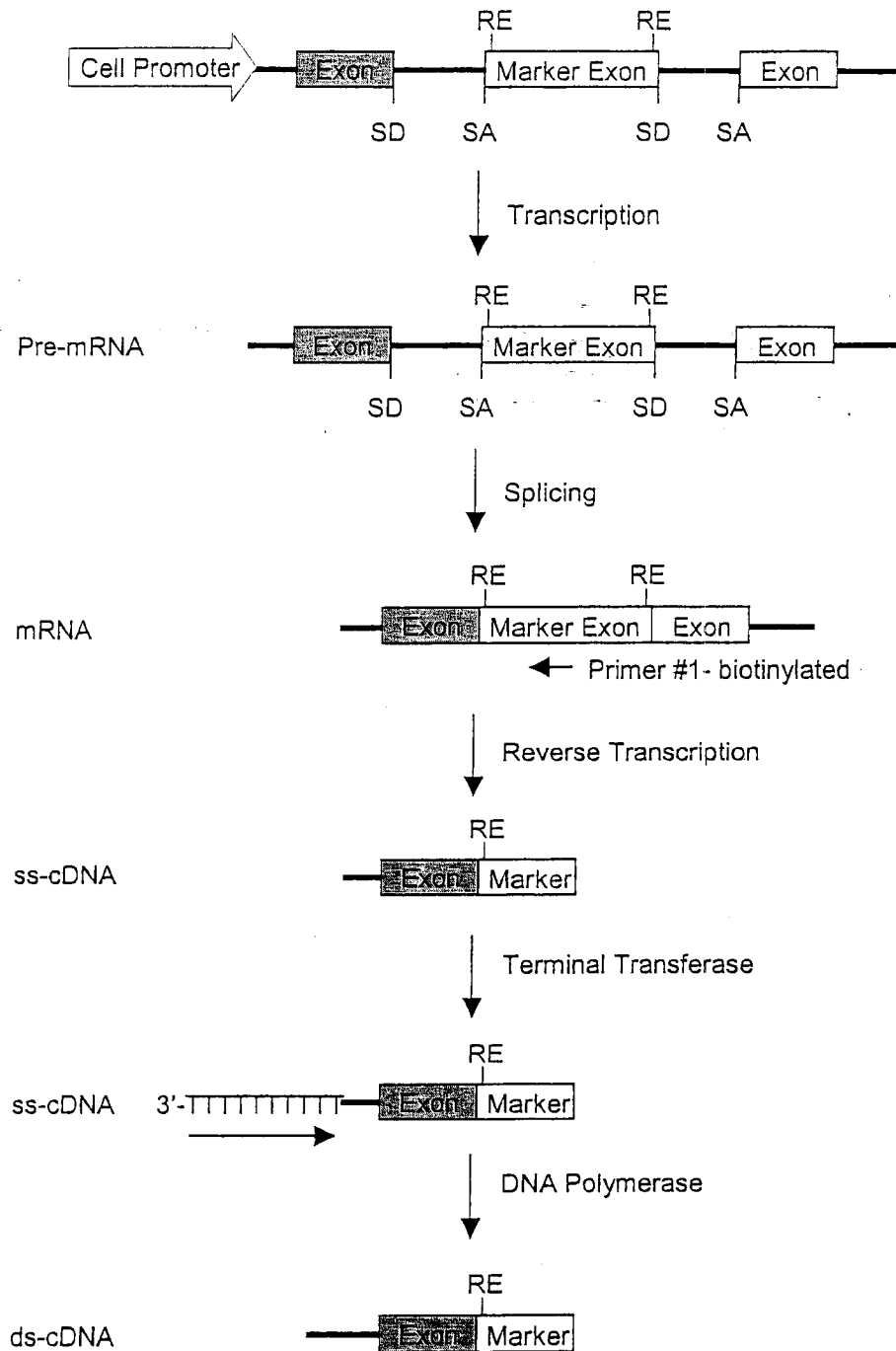


Fig. 18C

30/41

5'SAVI – cont.

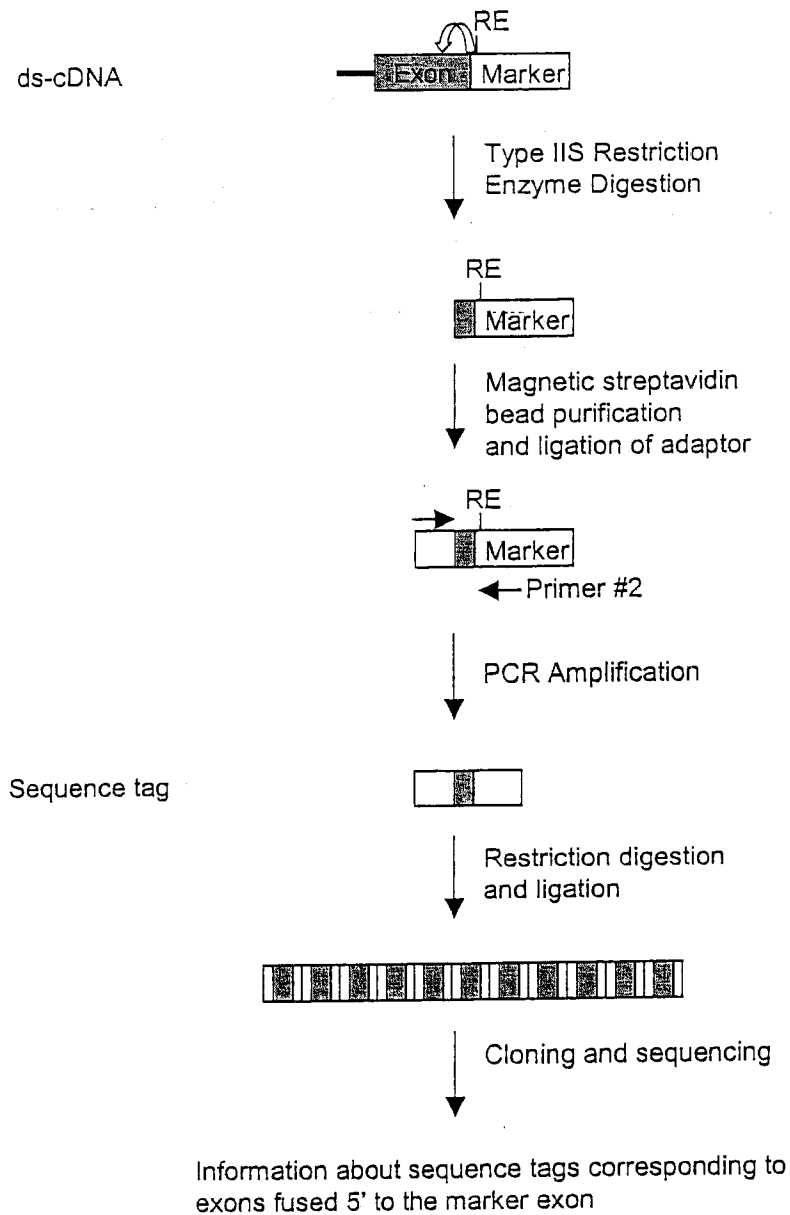


Fig. 18D

3' SAVI

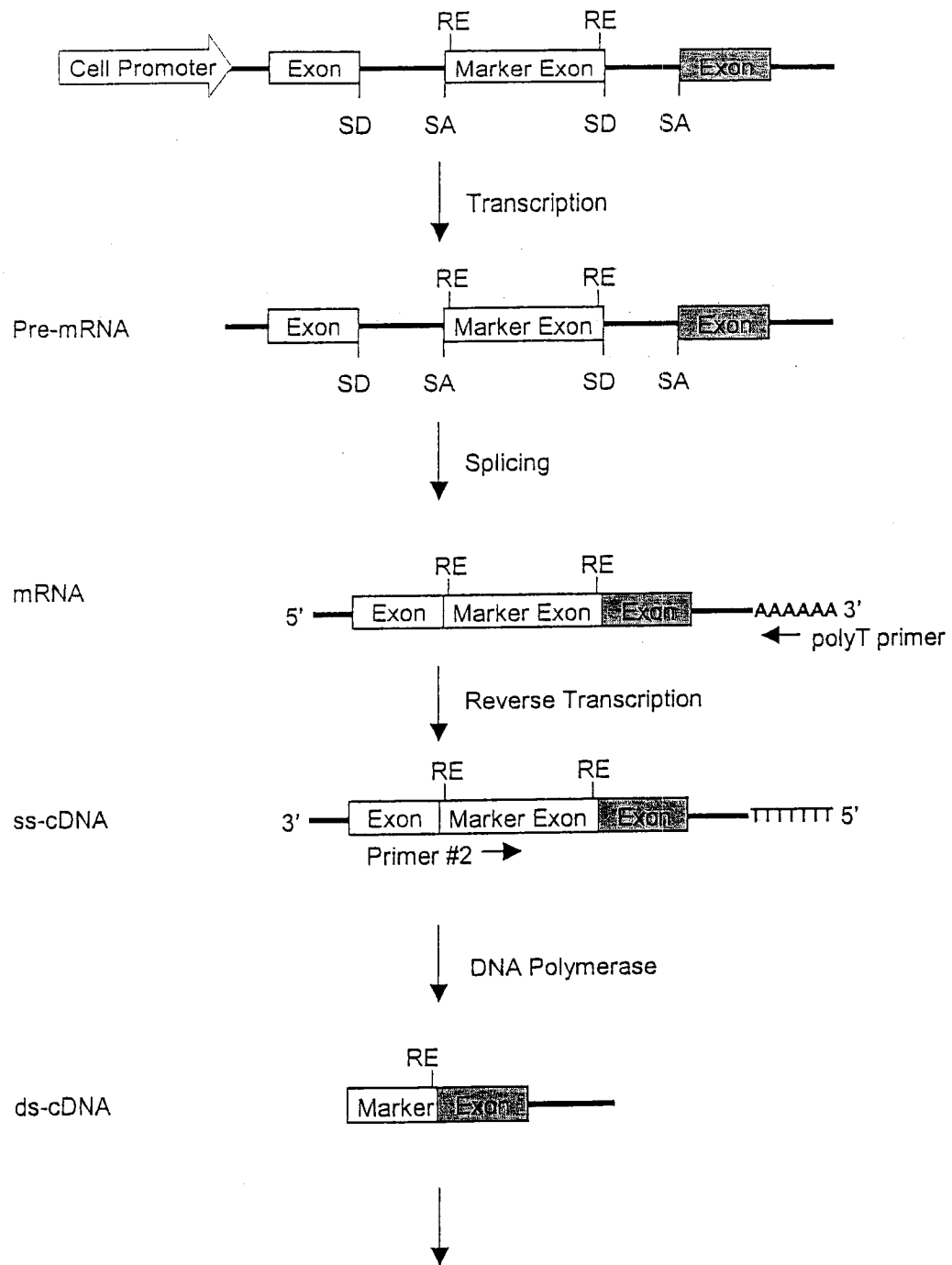


Fig. 18E

3'SAVI – cont.

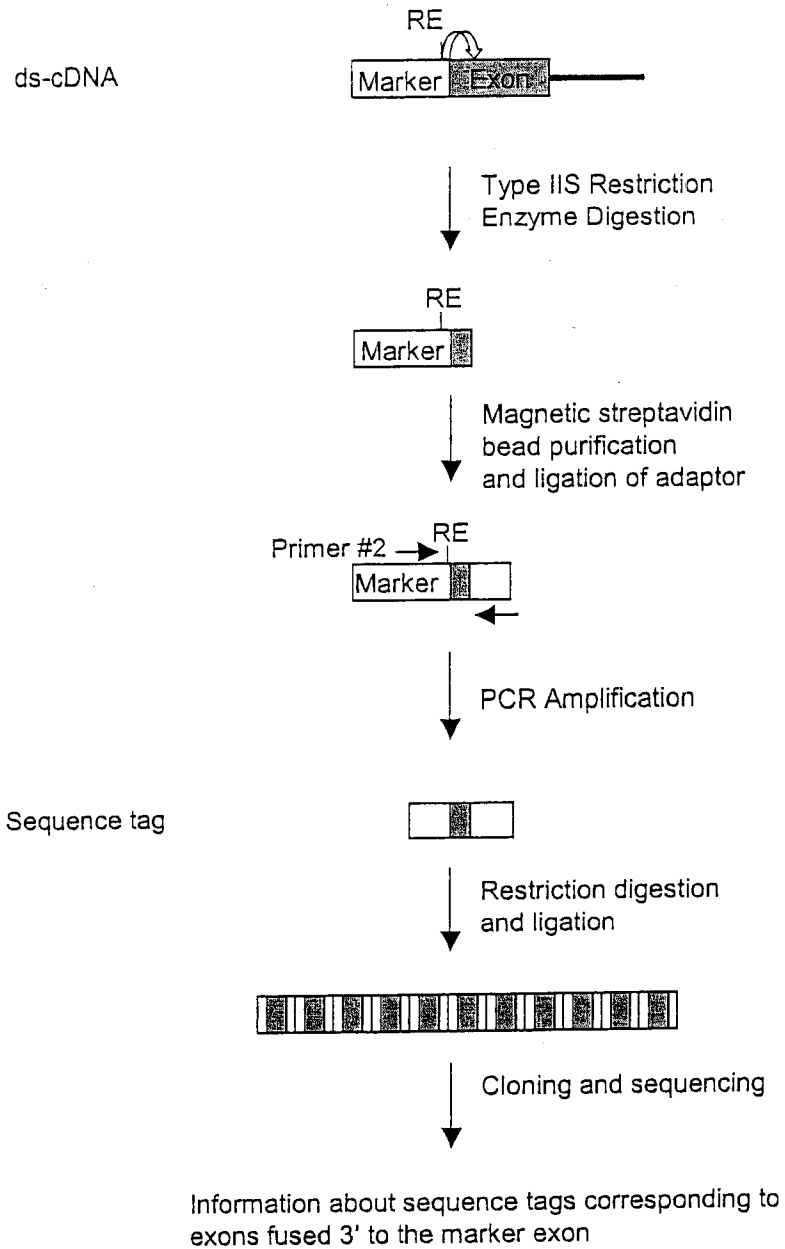


Fig. 18F

SAVI

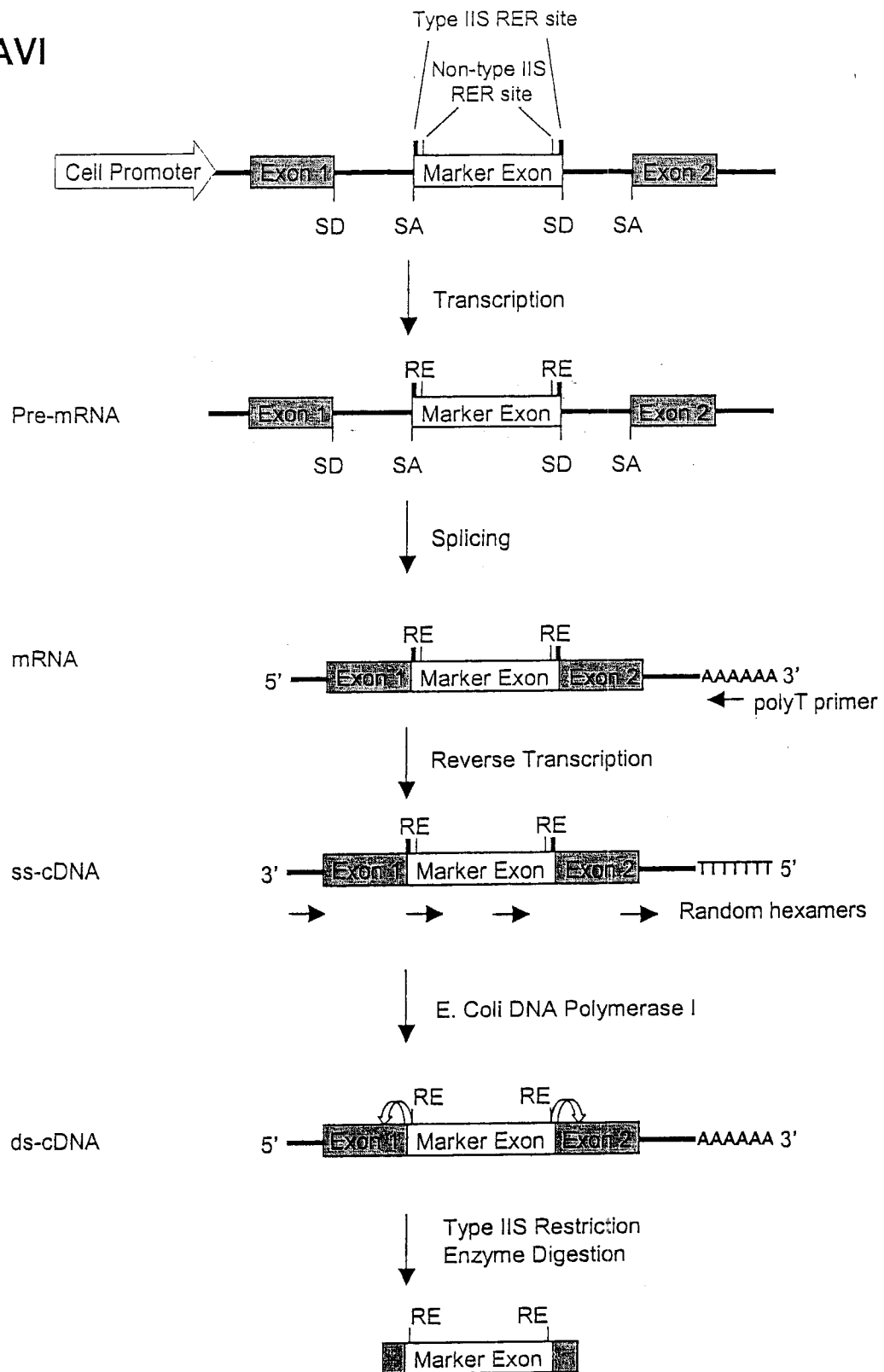


Fig. 18G

SAVI – cont.

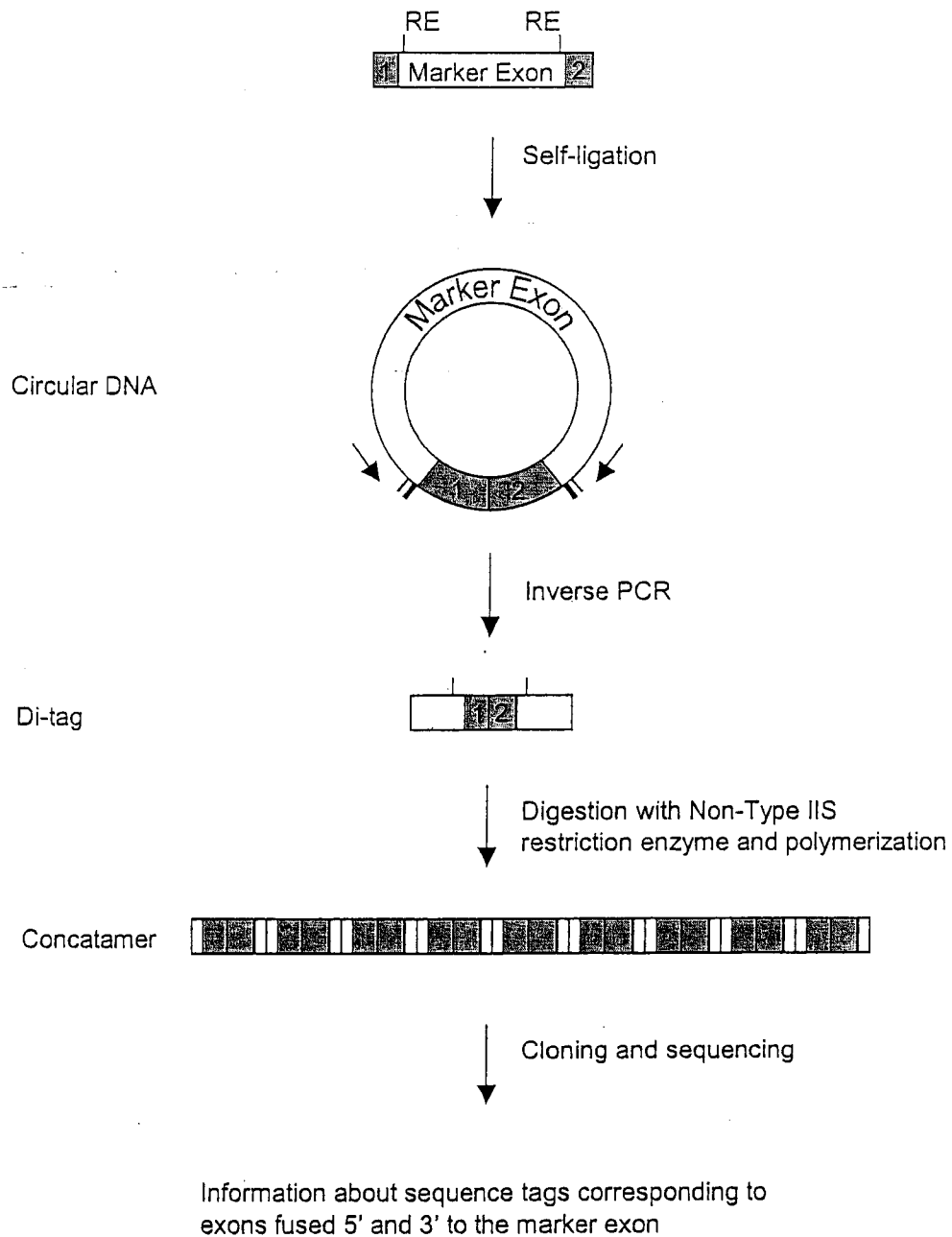


Fig. 18H

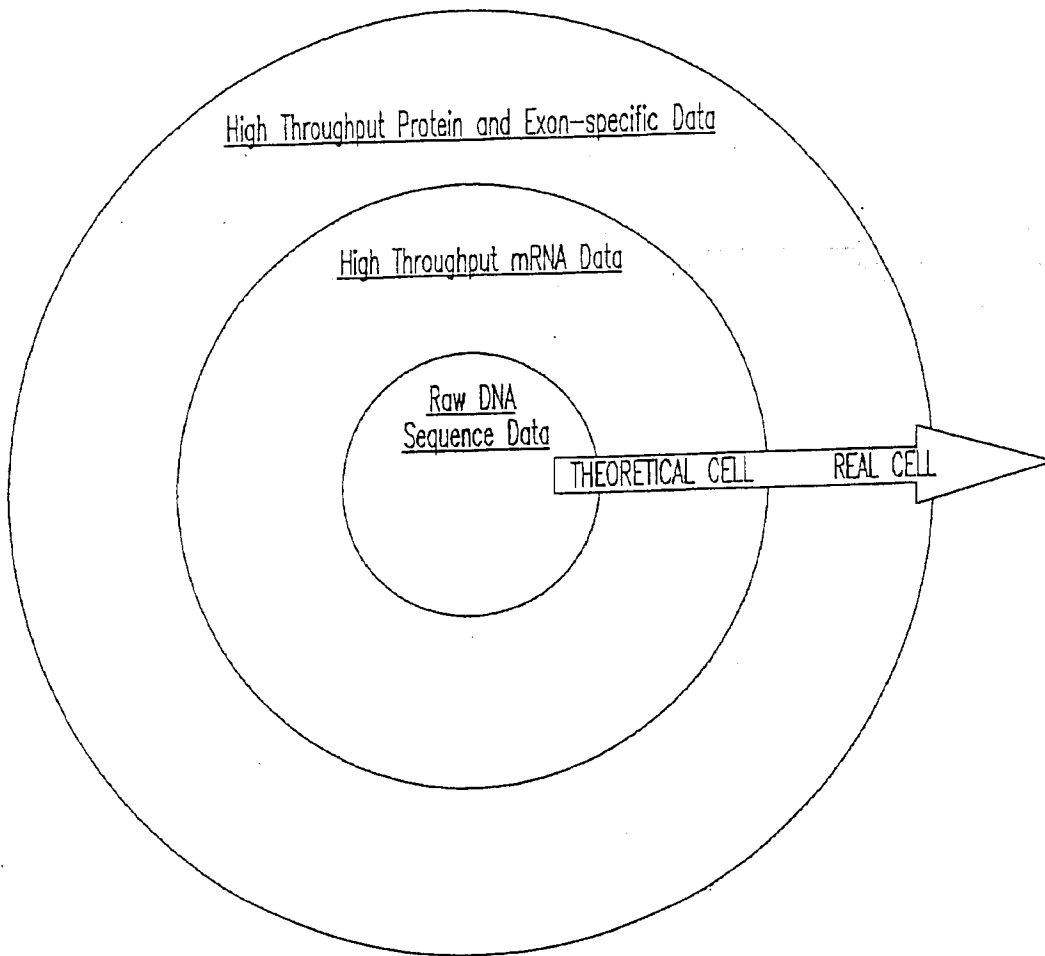


Fig. 19

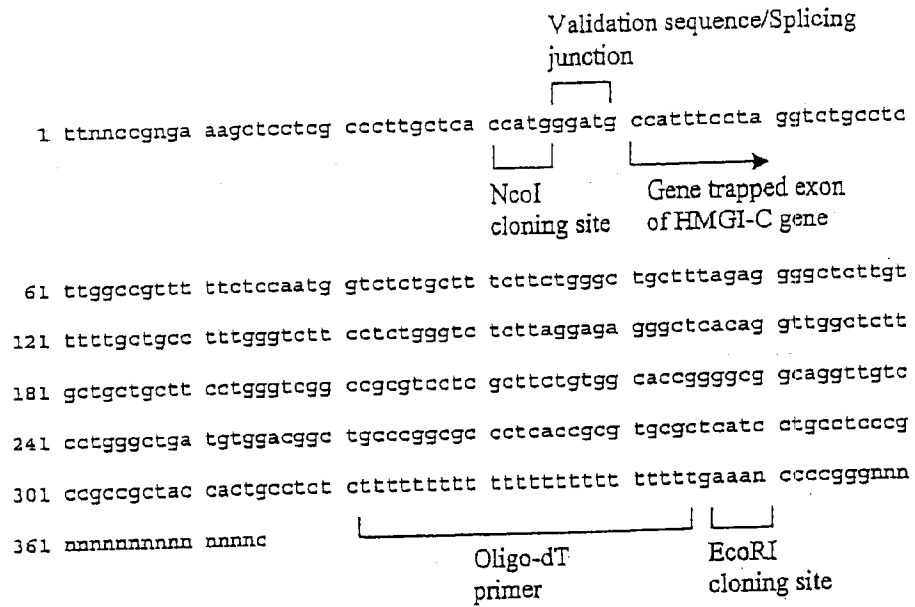


Fig. 20

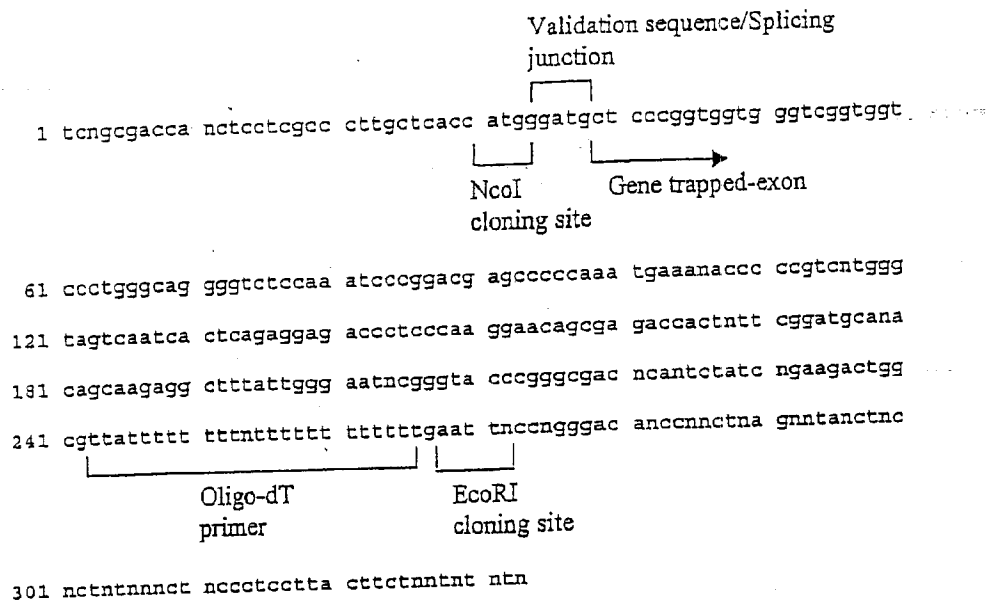


Fig. 21

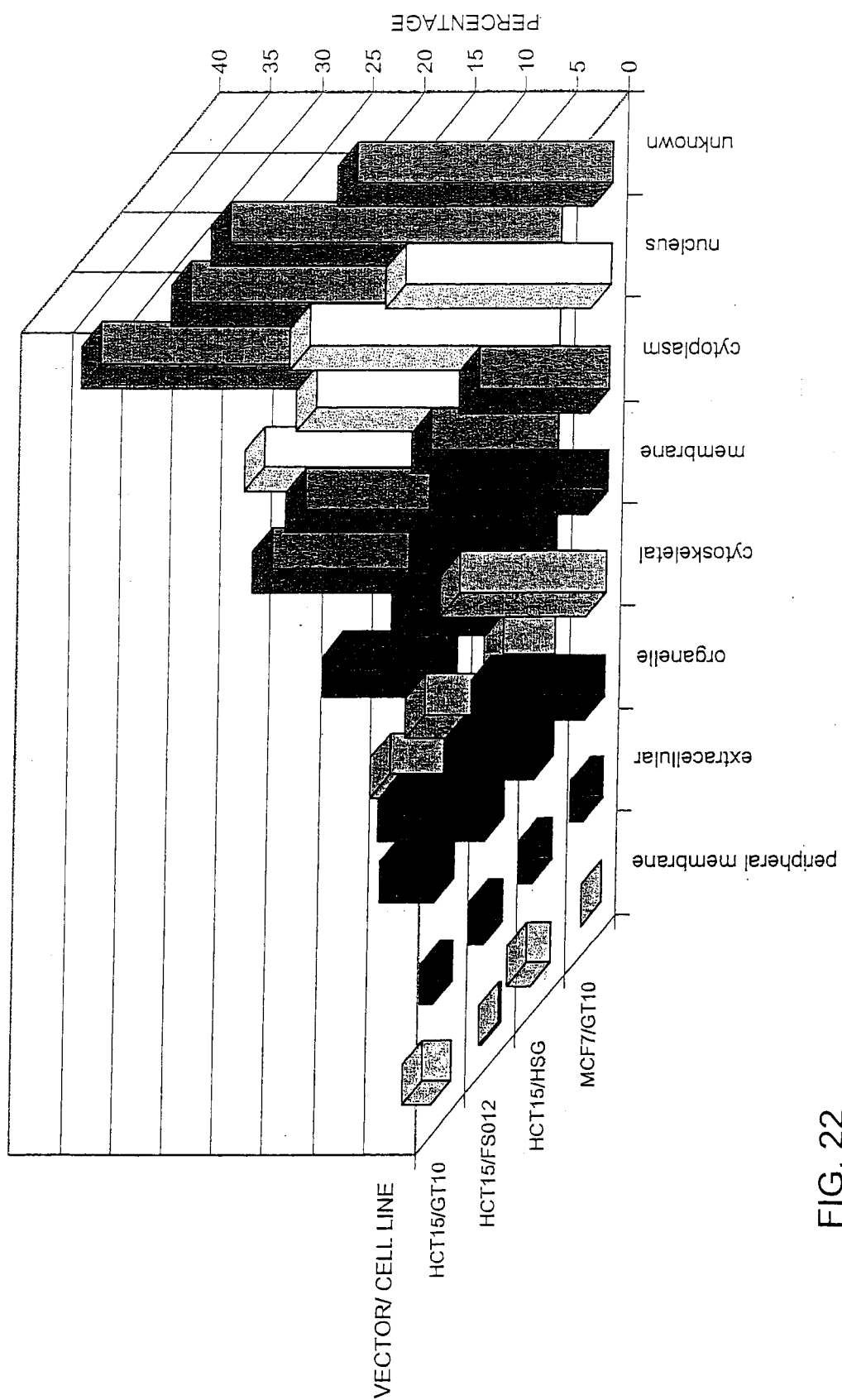


FIG. 22

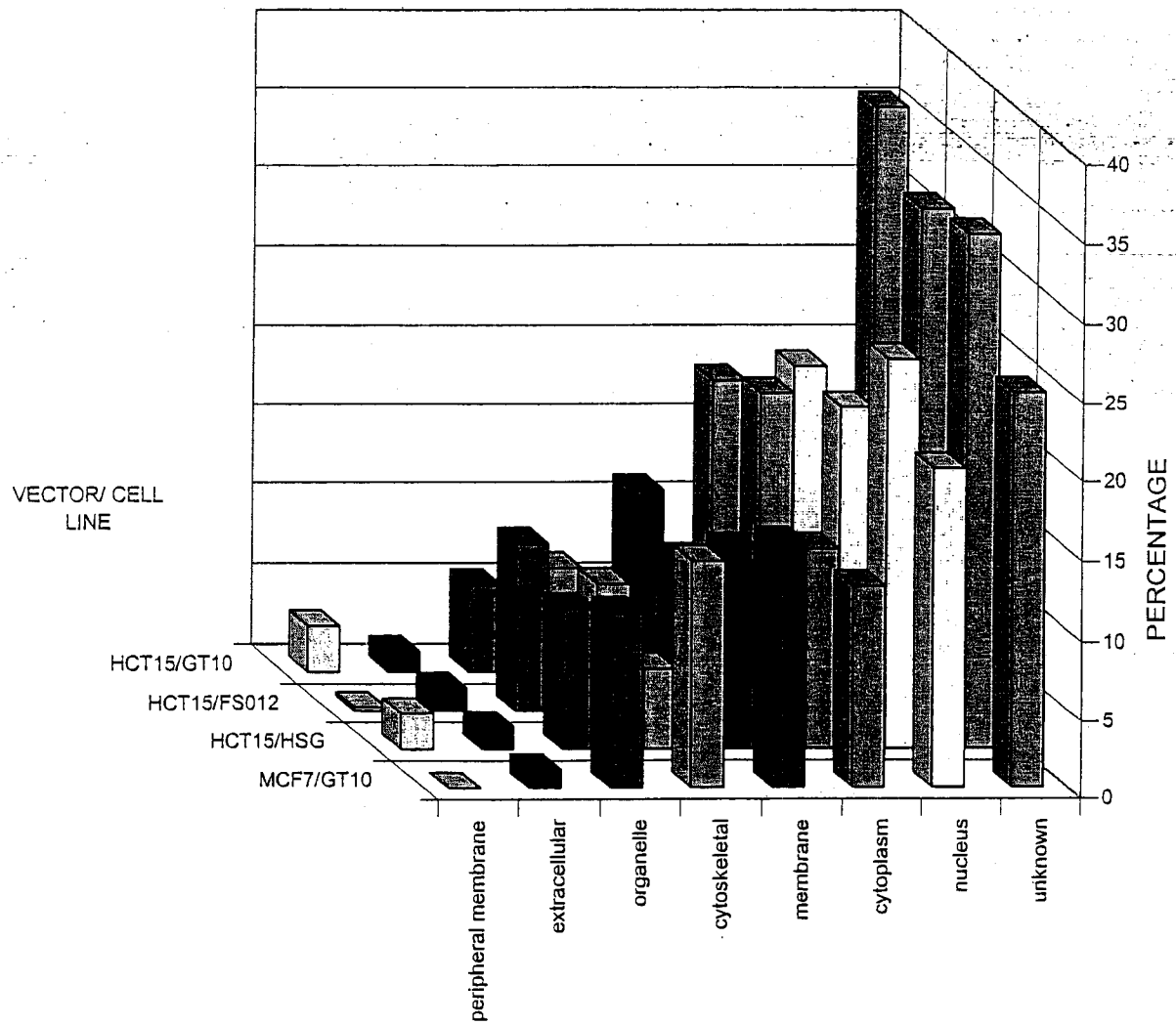


FIG. 23

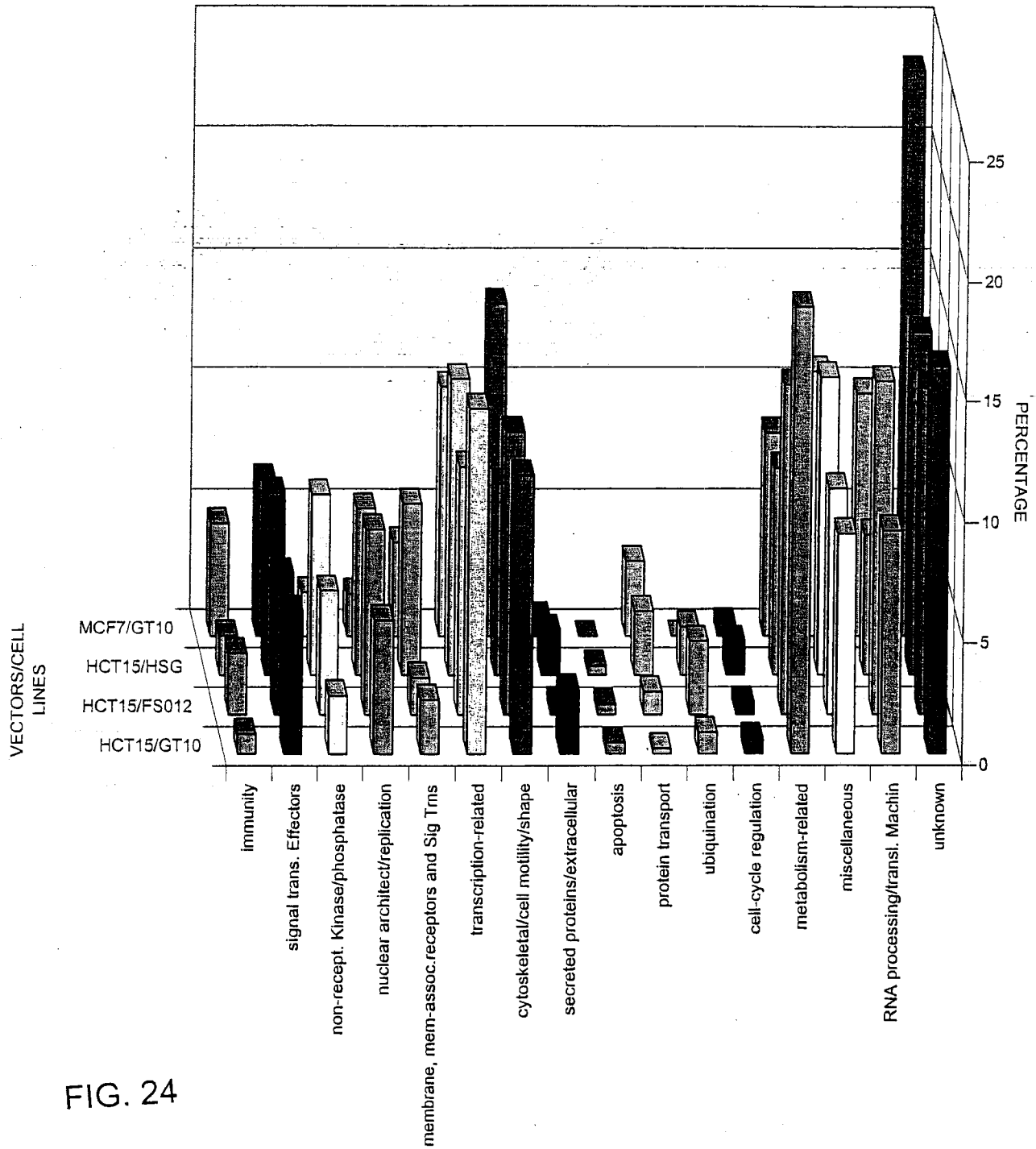


FIG. 24

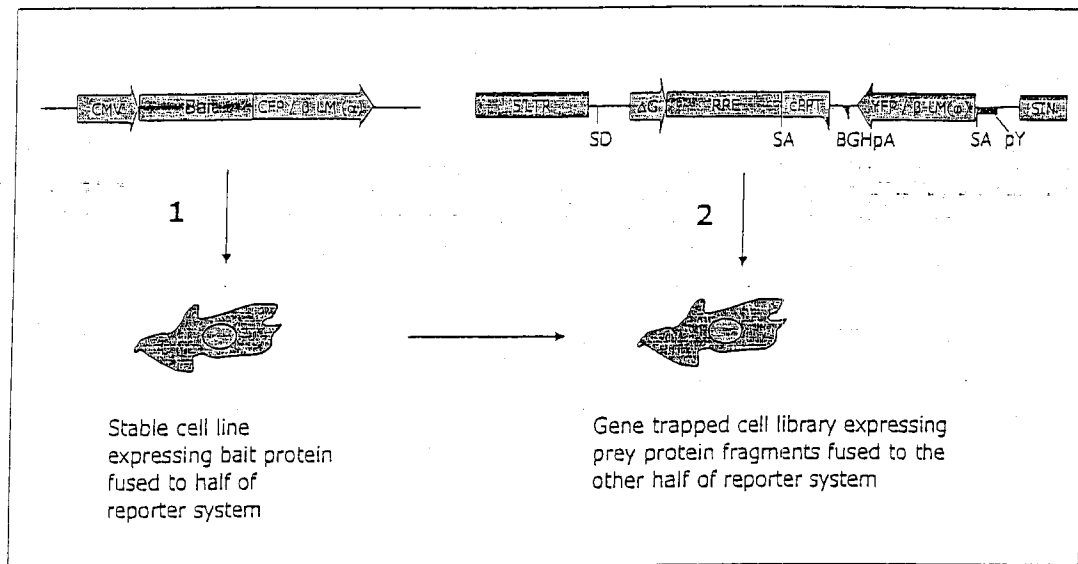


Fig. 25A

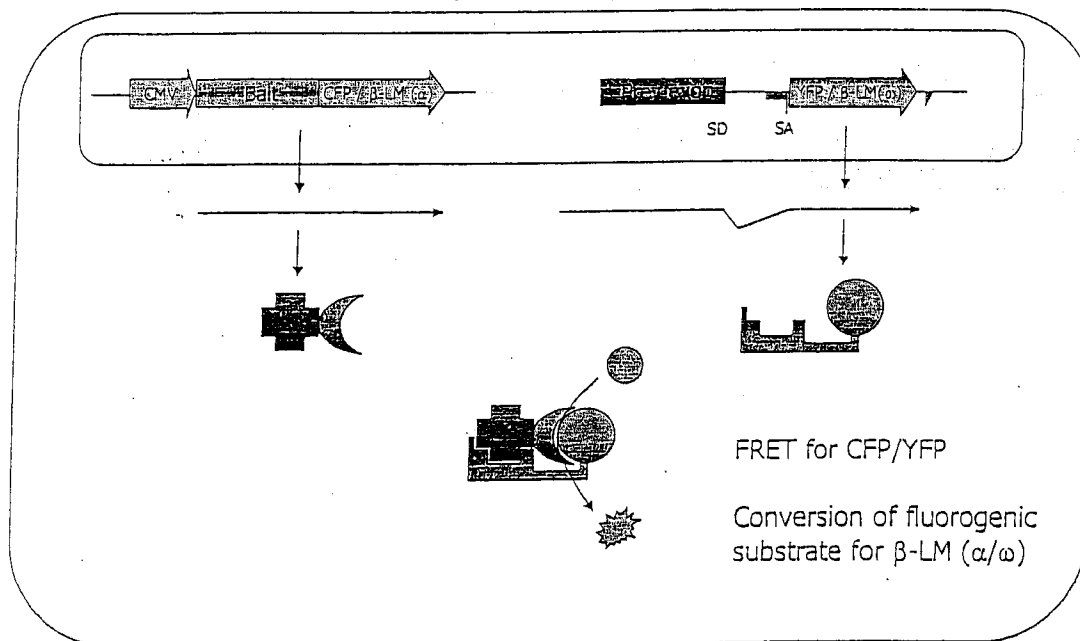


Fig. 25B